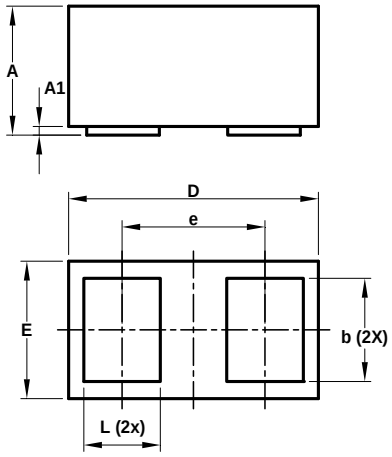
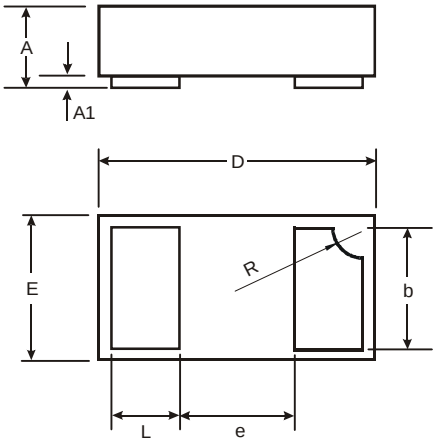
## Surface Mount Packages

### X3-DFN0603-2




| X3-DFN0603-2 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.27 | 0.35 | 0.30 |
| A1 | 0.00 | 0.03 | 0.02 |
| b | 0.19 | 0.29 | 0.24 |
| D | 0.595 | 0.645 | 0.62 |
| E | 0.295 | 0.345 | 0.32 |
| e | - | - | 0.355 |
| L | 0.14 | 0.24 | 0.19 |
| All Dimensions in mm | | | |

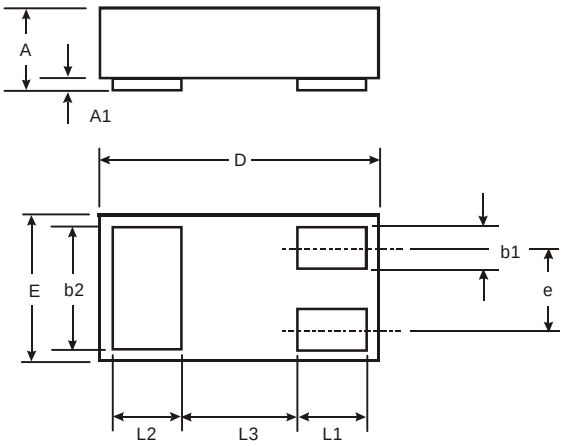
### X1-DFN1006-2 / X2-DFN1006-2




| X1-DFN1006-2 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.47 | 0.53 | 0.50 |
| A1 | 0 | 0.05 | 0.03 |
| b | 0.45 | 0.55 | 0.50 |
| D | 0.95 | 1.075 | 1.00 |
| E | 0.55 | 0.675 | 0.60 |
| e | - | - | 0.40 |
| L | 0.20 | 0.30 | 0.25 |
| R | 0.05 | 0.15 | 0.10 |
| All Dimensions in mm | | | |

| X2-DFN1006-2 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.34 | 0.4 | 0.37 |
| A1 | 0 | 0.05 | 0.03 |
| b | 0.45 | 0.55 | 0.50 |
| D | 0.95 | 1.075 | 1.00 |
| E | 0.55 | 0.675 | 0.60 |
| e | - | - | 0.40 |
| L | 0.20 | 0.30 | 0.25 |
| R | 0.05 | 0.15 | 0.10 |
| All Dimensions in mm | | | |

### X1-DFN1006-3 / X2-DFN1006-3

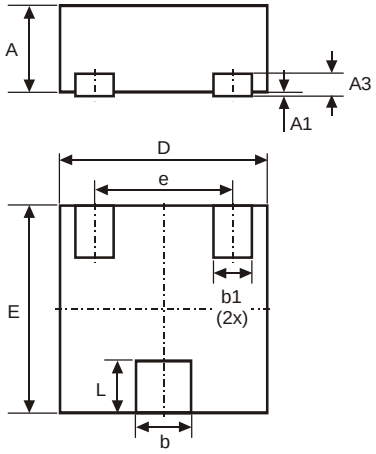



| X1-DFN1006-3 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.47 | 0.53 | 0.50 |
| A1 | 0 | 0.05 | 0.03 |
| b1 | 0.10 | 0.20 | 0.15 |
| b2 | 0.45 | 0.55 | 0.50 |
| D | 0.95 | 1.075 | 1.00 |
| E | 0.55 | 0.675 | 0.60 |
| e | - | - | 0.35 |
| L1 | 0.20 | 0.30 | 0.25 |
| L2 | 0.20 | 0.30 | 0.25 |
| L3 | - | - | 0.40 |
| All Dimensions in mm | | | |

| X2-DFN1006-3 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | — | 0.40 | — |
| A1 | 0 | 0.05 | 0.03 |
| b1 | 0.10 | 0.20 | 0.15 |
| b2 | 0.45 | 0.55 | 0.50 |
| D | 0.95 | 1.05 | 1.00 |
| E | 0.55 | 0.65 | 0.60 |
| e | - | - | 0.35 |
| L1 | 0.20 | 0.30 | 0.25 |
| L2 | 0.20 | 0.30 | 0.25 |
| L3 | - | - | 0.40 |
| All Dimensions in mm | | | |

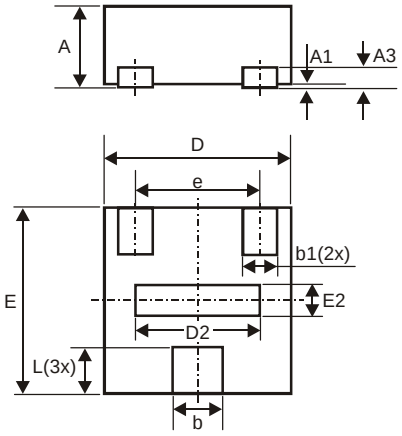

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**X1-DFN1212-3**



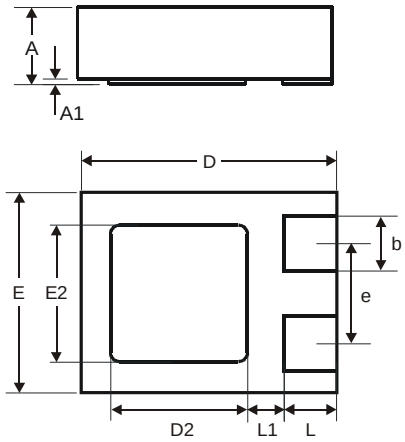

| X1-DFN1212-3 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.47 | 0.53 | 0.50 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.13 |
| **b** | 0.27 | 0.37 | 0.32 |
| **b1** | 0.17 | 0.27 | 0.22 |
| **D** | 1.15 | 1.25 | 1.20 |
| **E** | 1.15 | 1.25 | 1.20 |
| **e** | - | - | 0.80 |
| **L** | 0.25 | 0.35 | 0.30 |
| **All Dimensions in mm** | | | |

**X1-DFN1212-3**
**Type B**




| X1-DFN1212-3 Type B | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.47 | 0.53 | 0.50 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.13 |
| **b** | 0.27 | 0.37 | 0.32 |
| **b1** | 0.17 | 0.27 | 0.22 |
| **D** | 1.15 | 1.25 | 1.20 |
| **D2** | 0.70 | 0.90 | 0.80 |
| **E** | 1.15 | 1.25 | 1.20 |
| **E2** | 0.10 | 0.30 | 0.20 |
| **e** | - | - | 0.80 |
| **L** | 0.25 | 0.35 | 0.30 |
| **All Dimensions in mm** | | | |

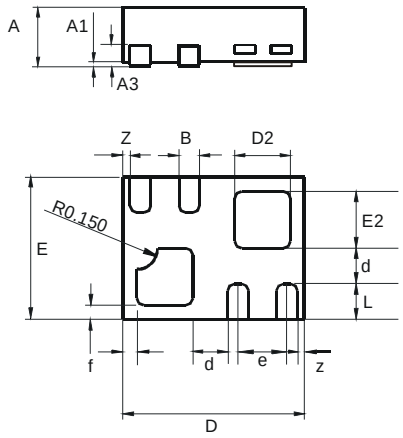
**X1-DFN1411-3**




| X1-DFN1411-3 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.47 | 0.53 | 0.50 |
| **A1** | 0 | 0.05 | 0.02 |
| **b** | 0.25 | 0.35 | 0.30 |
| **D** | 1.35 | 1.475 | 1.40 |
| **D2** | 0.65 | 0.85 | 0.75 |
| **E** | 1.05 | 1.175 | 1.10 |
| **E2** | 0.65 | 0.85 | 0.75 |
| **e** | - | - | 0.55 |
| **L** | 0.225 | 0.325 | 0.275 |
| **L1** | - | - | 0.20 |
| **All Dimensions in mm** | | | |


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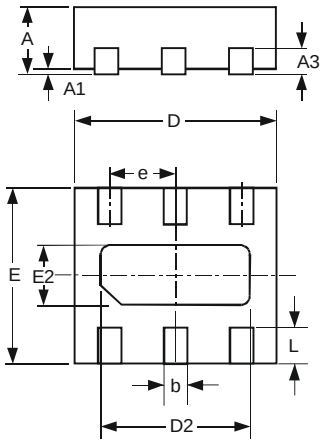
## X1-DFN1612-6 / X2-DFN1310-6




| X1-DFN1612-6 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.47 | 0.53 | 0.50 |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.13 |
| b | 0.15 | 0.25 | 0.20 |
| D | 1.55 | 1.675 | 1.60 |
| d | - | - | 0.25 |
| D2 | 0.40 | 0.60 | 0.50 |
| E | 1.15 | 1.28 | 1.20 |
| e | - | - | 0.40 |
| E2 | 0.45 | 0.65 | 0.55 |
| f | - | - | 0.15 |
| L | 0.20 | 0.30 | 0.25 |
| Z | - | - | 0.10 |
| All Dimensions in mm | | | |

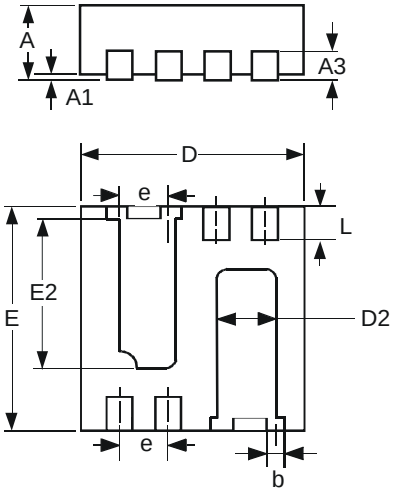
| X2-DFN1310-6 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | - | 0.40 | - |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.13 |
| b | 0.10 | 0.20 | 0.15 |
| D | 1.25 | 1.38 | 1.30 |
| d | - | - | 0.25 |
| D2 | 0.30 | 0.50 | 0.40 |
| E | 0.95 | 1.075 | 1.00 |
| e | - | - | 0.35 |
| E2 | 0.30 | 0.50 | 0.40 |
| f | - | - | 0.10 |
| L | 0.20 | 0.30 | 0.25 |
| Z | - | - | 0.05 |
| All Dimensions in mm | | | |

## U-DFN1616-6



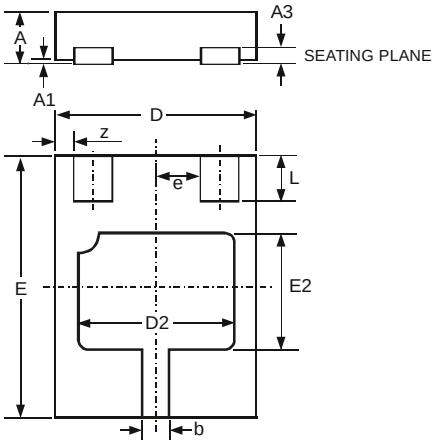

| U-DFN1616-6 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.545 | 0.605 | 0.575 |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.13 |
| b | 0.20 | 0.30 | 0.25 |
| D | 1.55 | 1.675 | 1.60 |
| D2 | 1.10 | 1.30 | 1.20 |
| E | 1.55 | 1.675 | 1.60 |
| e | - | - | 0.50 |
| E2 | 0.30 | 0.50 | 0.40 |
| L | 0.275 | 0.375 | 0.325 |
| All Dimensions in mm | | | |

## U-DFN1616-8




| U-DFN1616-8 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.545 | 0.605 | 0.575 |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.13 |
| b | 0.15 | 0.25 | 0.20 |
| D | 1.55 | 1.675 | 1.60 |
| D2 | 0.35 | 0.55 | 0.45 |
| E | 1.55 | 1.675 | 1.60 |
| e | - | - | 0.40 |
| E2 | 0.90 | 1.10 | 1.00 |
| L | 0.25 | 0.35 | 0.30 |
| All Dimensions in mm | | | |

## X2-DFN2015-3

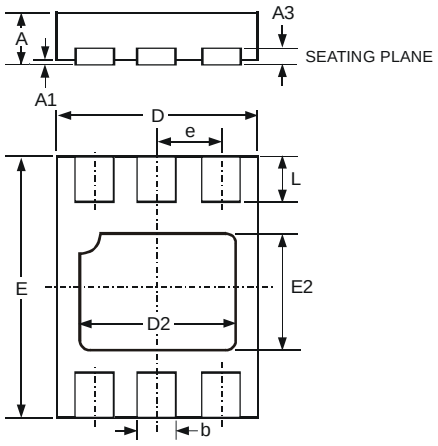



| X2-DFN2015-3 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | - | 0.40 | - |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.13 |
| b | 0.20 | 0.30 | 0.25 |
| D | 1.45 | 1.575 | 1.5 |
| D2 | 1.00 | 1.20 | 1.10 |
| e | - | - | 0.50 |
| E | 1.95 | 2.075 | 2.00 |
| E2 | 0.70 | 0.90 | 0.80 |
| L | 0.25 | 0.35 | 0.30 |
| z | - | - | 0.125 |
| All Dimensions in mm | | | |



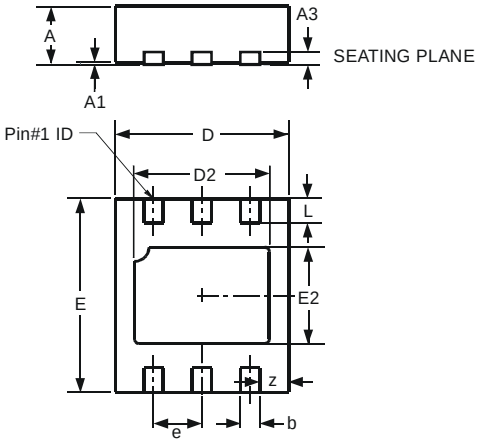
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**X2-DFN2015-6**



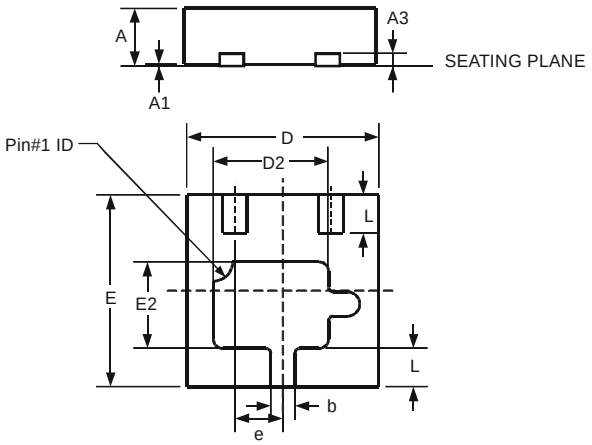

| X2-DFN2015-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | - | 0.40 | - |
| **A1** | 0 | 0.05 | - |
| **A3** | - | - | 0.13 |
| **b** | 0.20 | 0.30 | - |
| **D** | 1.45 | 1.575 | - |
| **D2** | 1.00 | 1.20 | - |
| **e** | - | - | 0.50 |
| **E** | 1.95 | 2.075 | - |
| **E2** | 0.70 | 0.90 | - |
| **L** | 0.25 | 0.35 | - |
| **All Dimensions in mm** | | | |

**U-DFN2018-6**




| U-DFN2018-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.545 | 0.605 | 0.575 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.13 |
| **b** | 0.15 | 0.25 | 0.20 |
| **D** | 1.750 | 1.875 | 1.80 |
| **D** | 1.30 | 1.50 | 1.40 |
| **e** | - | - | 0.50 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.90 | 1.10 | 1.00 |
| **L** | 0.20 | 0.30 | 0.25 |
| **z** | - | - | 0.30 |
| **All Dimensions in mm** | | | |

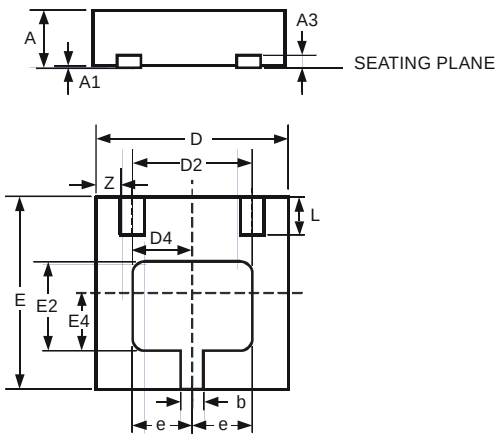
**U-DFN2020-3**




| U-DFN2020-3 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.152 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.95 | 2.075 | 2.00 |
| **D2** | 1.10 | 1.30 | 1.20 |
| **e** | - | - | 0.50 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.80 | 1.00 | 0.90 |
| **L** | 0.35 | 0.45 | 0.40 |
| **All Dimensions in mm** | | | |

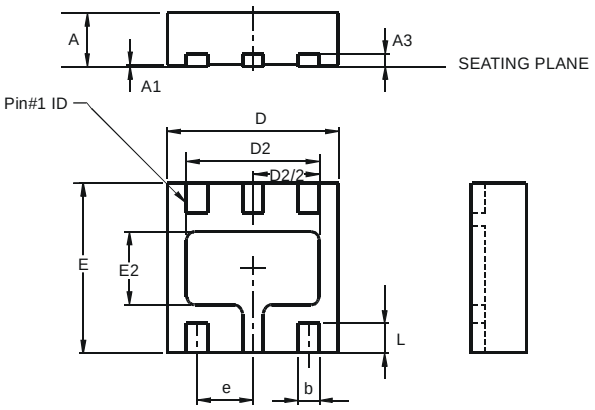

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**U-DFN2020-3**
**Type B**



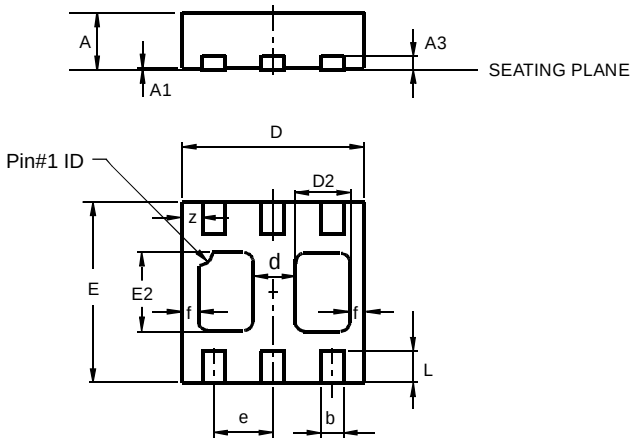

| U-DFN2020-3 Type B | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.152 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.95 | 2.075 | 2.00 |
| **D2** | 1.22 | 1.42 | 1.32 |
| **D4** | 0.56 | 0.76 | 0.66 |
| **e** | - | - | 0.65 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.79 | 0.99 | 0.89 |
| **E4** | 0.48 | 0.68 | 0.58 |
| **L** | 0.25 | 0.35 | 0.30 |
| **Z** | - | - | 0.225 |
| **All Dimensions in mm** | | | |

**U-DFN2020-6**




| U-DFN2020-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.03 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.95 | 2.075 | 2.00 |
| **D2** | 1.45 | 1.65 | 1.55 |
| **e** | - | - | 0.65 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.76 | 0.96 | 0.86 |
| **L** | 0.30 | 0.40 | 0.35 |
| **All Dimensions in mm** | | | |

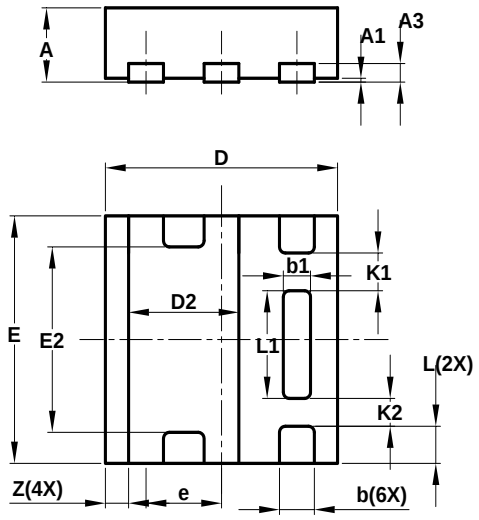
**U-DFN2020-6**
**Type B**




| U-DFN2020-6 Type B | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.545 | 0.605 | 0.575 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.13 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.95 | 2.075 | 2.00 |
| **d** | - | - | 0.45 |
| **D2** | 0.50 | 0.70 | 0.60 |
| **e** | - | - | 0.65 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.90 | 1.10 | 1.00 |
| **f** | - | - | 0.15 |
| **L** | 0.25 | 0.35 | 0.30 |
| **z** | - | - | 0.225 |
| **All Dimensions in mm** | | | |

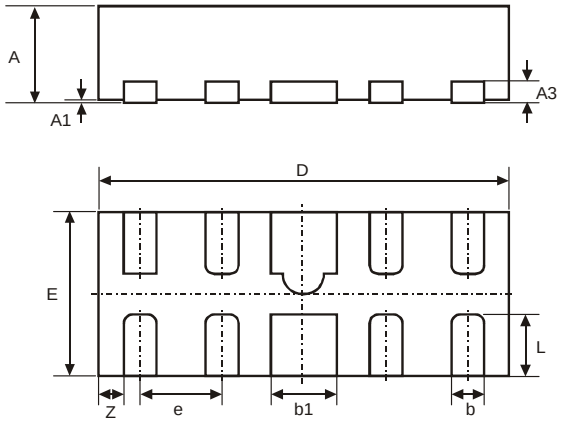

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**U-DFN2020-6**
**Type E**



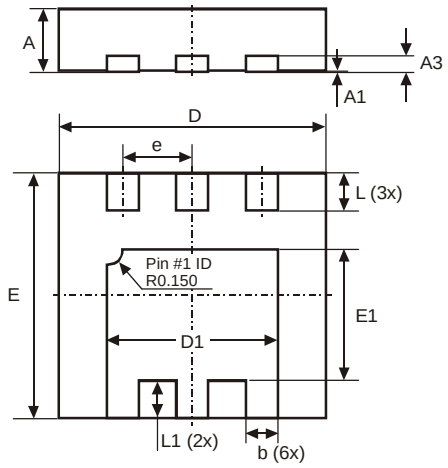

| U-DFN2020-6 Type E | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.03 |
| **A3** | – | – | 0.15 |
| **b** | 0.25 | 0.35 | 0.30 |
| **b1** | 0.185 | 0.285 | 0.235 |
| **D** | 1.95 | 2.05 | 2.00 |
| **D2** | 0.85 | 1.05 | 0.95 |
| **E** | 1.95 | 2.05 | 2.00 |
| **E2** | 1.40 | 1.60 | 1.50 |
| **e** | – | – | 0.65 |
| **L** | 0.25 | 0.35 | 0.30 |
| **L1** | 0.82 | 0.92 | 0.87 |
| **K1** | – | – | 0.305 |
| **K2** | – | – | 0.225 |
| **Z** | – | – | 0.20 |
| **All Dimensions in mm** | | | |

**U-DFN2510-8**




| U-DFN2510-8 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.545 | 0.605 | 0.575 |
| **A1** | 0 | 0.05 | 0.03 |
| **A3** | - | - | 0.13 |
| **b** | 0.15 | 0.25 | 0.20 |
| **b1** | 0.35 | 0.45 | 0.40 |
| **D** | 2.450 | 2.575 | 2.500 |
| **e** | - | - | 0.50 |
| **E** | 0.950 | 1.075 | 1.000 |
| **L** | 0.325 | 0.425 | 0.375 |
| **Z** | - | - | 0.150 |
| **All Dimensions in mm** | | | |

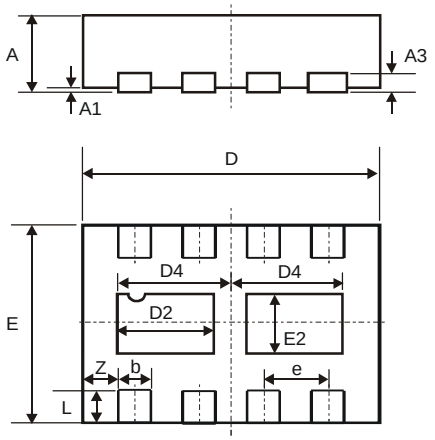
**U-DFN2523-6**




| U-DFN2523-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.152 |
| **b** | 0.25 | 0.35 | 0.30 |
| **D** | 2.45 | 2.55 | 2.50 |
| **D1** | 1.55 | 1.65 | 1.60 |
| **e** | - | - | 0.65 |
| **E** | 2.25 | 2.35 | 2.30 |
| **E1** | 1.18 | 1.28 | 1.23 |
| **L** | 0.30 | 0.40 | 0.35 |
| **L1** | 0.30 | 0.40 | 0.35 |
| **All Dimensions in mm** | | | |

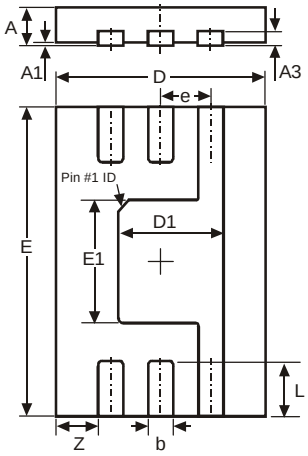

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**W-DFN3020-8**
**Type B**



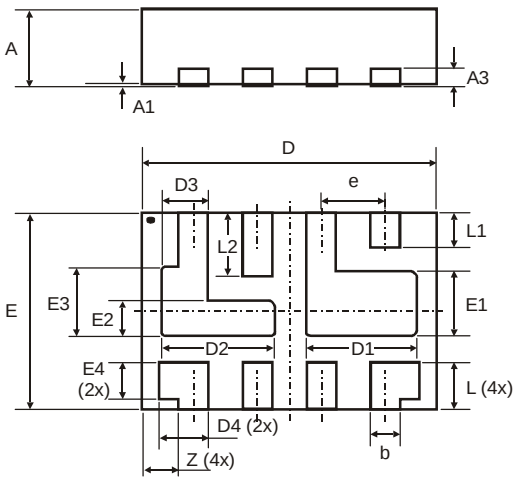

| W-DFN3020-8 Type B | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.77 | 0.83 | 0.80 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.25 | 0.35 | 0.30 |
| **D** | 2.95 | 3.075 | 3.00 |
| **D2** | 0.82 | 1.02 | 0.92 |
| **D4** | 1.01 | 1.21 | 1.11 |
| **e** | - | - | 0.65 |
| **E** | 1.95 | 2.075 | 2.00 |
| **E2** | 0.43 | 0.63 | 0.53 |
| **L** | 0.25 | 0.35 | 0.30 |
| **Z** | - | - | 0.375 |
| **All Dimensions in mm** | | | |

**X2-DFN3020-6**




| X2-DFN3020-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | - | 0.40 | - |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.95 | 2.075 | 2.00 |
| **D1** | 0.942 | 1.142 | 1.042 |
| **e** | - | - | 0.50 |
| **E** | 2.95 | 3.075 | 3.00 |
| **E1** | 1.124 | 1.324 | 1.224 |
| **L** | 0.50 | 0.60 | 0.55 |
| **Z** | - | - | 0.375 |
| **All Dimensions in mm** | | | |

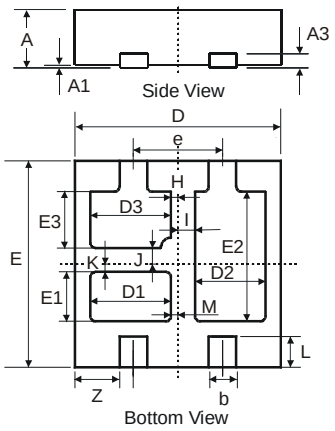
**W-DFN3020-8**
**Type K**




| W-DFN3020-8 Type K | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.77 | 0.83 | 0.80 |
| **A1** | 0.00 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.25 | 0.35 | 0.30 |
| **D** | 2.95 | 3.05 | 3.00 |
| **D1** | 1.025 | 1.225 | 1.125 |
| **D2** | 1.05 | 1.25 | 1.15 |
| **D3** | 0.375 | 0.575 | 0.475 |
| **D4** | 0.40 | 0.60 | 0.50 |
| **E** | 1.95 | 2.05 | 2.00 |
| **e** | - | - | 0.65 |
| **E1** | 0.56 | 0.76 | 0.66 |
| **E2** | 0.26 | 0.46 | 0.36 |
| **E3** | 0.605 | 0.805 | 0.705 |
| **E4** | 0.275 | 0.475 | 0.375 |
| **L** | 0.425 | 0.525 | 0.475 |
| **L1** | 0.30 | 0.40 | 0.35 |
| **L2** | 0.60 | 0.70 | 0.65 |
| **Z** | - | - | 0.375 |
| **All Dimensions in mm** | | | |

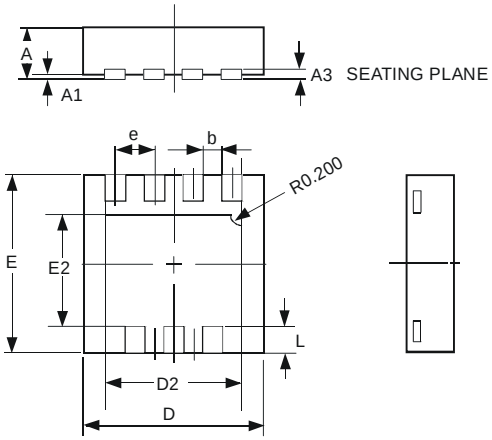

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**U-DFN3030-4**




| U-DFN3030-4 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.35 | 0.45 | 0.40 |
| **D** | 2.90 | 3.10 | 3.00 |
| **D1** | 1.075 | 1.275 | 1.175 |
| **D2** | 0.925 | 1.125 | 1.025 |
| **D3** | 1.075 | 1.275 | 1.175 |
| **E** | 2.90 | 3.10 | 3.00 |
| **e** | - | - | 1.30 |
| **E1** | 0.615 | 0.815 | 0.715 |
| **E2** | 1.78 | 1.98 | 1.88 |
| **E3** | 0.715 | 0.915 | 0.815 |
| **H** | 0.05 | 0.15 | 0.10 |
| **I** | 0.20 | 0.30 | 0.25 |
| **J** | 0.185 | 0.285 | 0.235 |
| **K** | 0.065 | 0.165 | 0.115 |
| **L** | 0.30 | 0.60 | 0.45 |
| **M** | 0.05 | 0.15 | 0.10 |
| **Z** | - | - | 0.65 |
| **All Dimensions in mm** | | | |

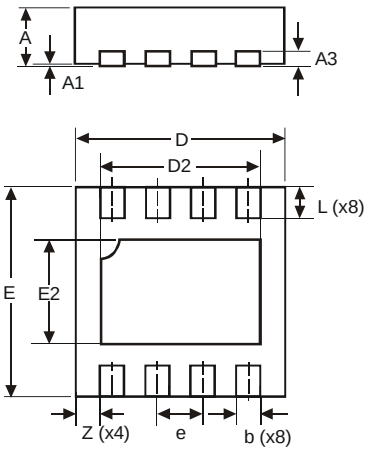
**U-DFN3030-8**




| U-DFN3030-8 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.29 | 0.39 | 0.34 |
| **D** | 2.90 | 3.10 | 3.00 |
| **D2** | 2.19 | 2.39 | 2.29 |
| **e** | - | - | 0.65 |
| **E** | 2.90 | 3.10 | 3.00 |
| **E2** | 1.64 | 1.84 | 1.74 |
| **L** | 0.30 | 0.60 | 0.45 |
| **All Dimensions in mm** | | | |

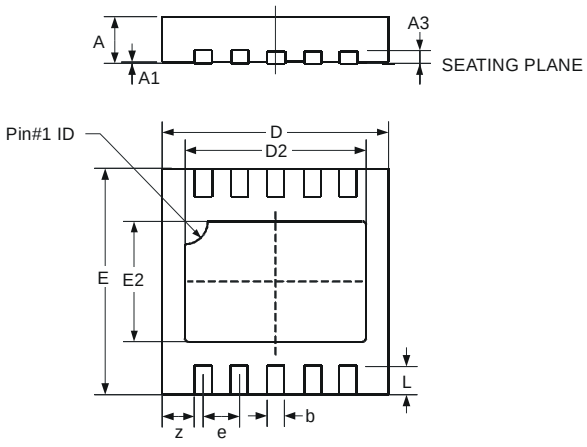

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**U-DFN3030-8**
**Type E**



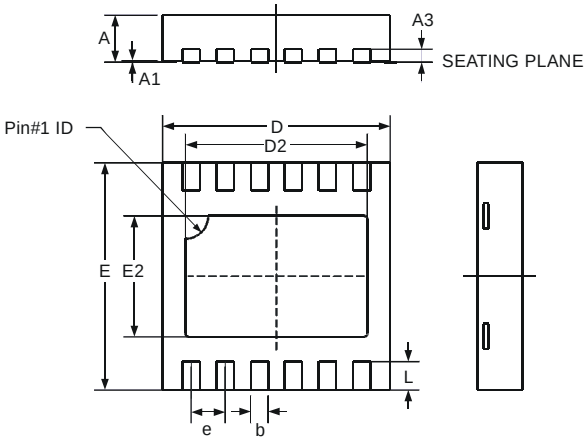

| U-DFN3030-8 Type E | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 2.95 | 3.05 | 3.00 |
| **D2** | 2.15 | 2.35 | 2.25 |
| **E** | 2.95 | 3.05 | 3.00 |
| **e** | - | - | 0.65 |
| **E2** | 1.40 | 1.60 | 1.50 |
| **L** | 0.30 | 0.60 | 0.45 |
| **Z** | - | - | 0.40 |
| **All Dimensions in mm** | | | |

**U-DFN3030-10**




| U-DFN3030-10 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 2.90 | 3.10 | 3.00 |
| **D2** | 2.30 | 2.50 | 2.40 |
| **e** | - | - | 0.50 |
| **E** | 2.90 | 3.10 | 3.00 |
| **E2** | 1.50 | 1.70 | 1.60 |
| **L** | 0.25 | 0.55 | 0.40 |
| **z** | - | - | 0.375 |
| **All Dimensions in mm** | | | |

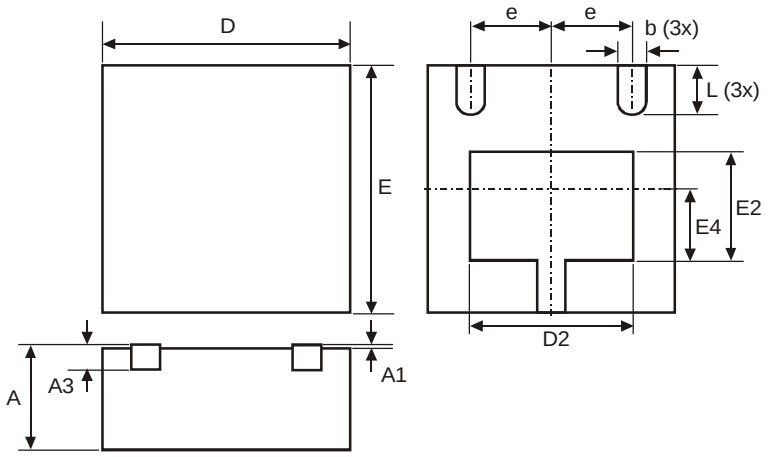
**U-DFN3030-12**




| U-DFN3030-12 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.18 | 0.28 | 0.23 |
| **D** | 2.90 | 3.10 | 3.00 |
| **D2** | 2.30 | 2.50 | 2.40 |
| **e** | - | - | 0.45 |
| **E** | 2.90 | 3.10 | 3.00 |
| **E2** | 1.50 | 1.70 | 1.60 |
| **L** | 0.25 | 0.55 | 0.40 |
| **All Dimensions in mm** | | | |

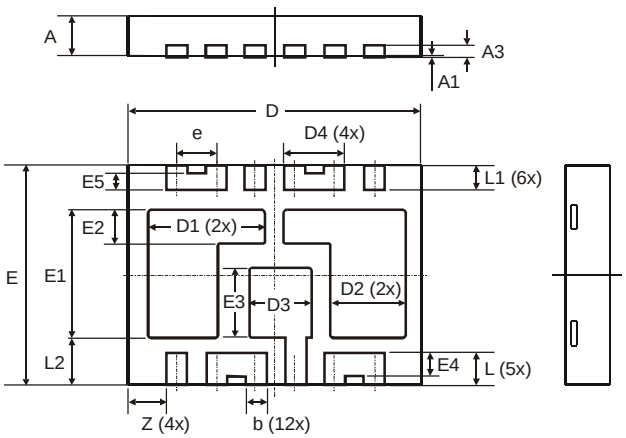

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## DFN322



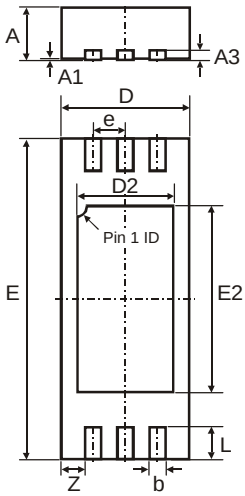

| DFN322 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.800 | 1.00 | 0.850 |
| **A** | - | 0.050 | - |
| **A3** | 0.153 | 0.253 | 0.203 |
| **b** | 0.180 | 0.300 | 0.230 |
| **D** | 1.900 | 2.100 | 2.000 |
| **D2** | 1.220 | 1.420 | 1.320 |
| **e** | - | - | 0.650 |
| **E** | 1.900 | 2.100 | 2.000 |
| **E2** | 0.780 | 0.990 | 0.880 |
| **E4** | 0.480 | 0.680 | 0.580 |
| **L** | 0.300 | 0.500 | 0.400 |
| **All Dimensions in mm** | | | |

## U-DFN4030-12
## Type B




| U-DFN4030-12<br>Type B | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.55 | 0.65 | 0.60 |
| **A1** | 0.00 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 3.95 | 4.05 | 4.00 |
| **D1** | 1.52 | 1.72 | 1.62 |
| **D2** | 0.96 | 1.16 | 1.06 |
| **D3** | 0.70 | 0.90 | 0.80 |
| **D4** | 0.65 | 0.85 | 0.75 |
| **E** | 2.95 | 3.05 | 3.00 |
| **e** | - | - | 0.50 |
| **E1** | 1.51 | 1.71 | 1.61 |
| **E2** | 0.35 | 0.55 | 0.45 |
| **E3** | 0.74 | 0.94 | 0.84 |
| **E4** | 0.30 | 0.50 | 0.40 |
| **E5** | 0.15 | 0.35 | 0.25 |
| **L** | 0.45 | 0.55 | 0.50 |
| **L1** | 0.30 | 0.40 | 0.35 |
| **L2** | 0.72 | 0.82 | 0.77 |
| **Z** | - | - | 0.625 |
| **All Dimensions in mm** | | | |

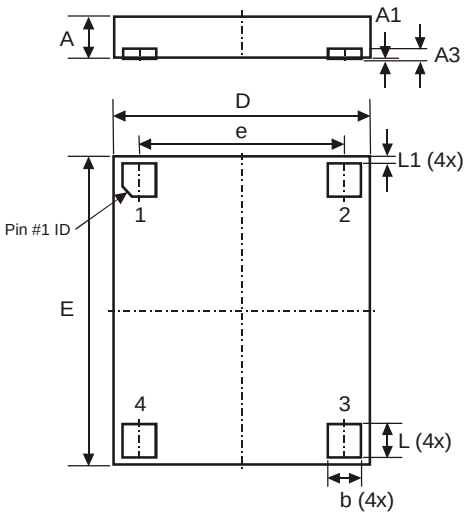
## W-DFN5020-6




| W-DFN5020-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.75 | 0.85 | 0.80 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.20 | 0.30 | 0.25 |
| **D** | 1.90 | 2.10 | 2.00 |
| **D2** | 1.40 | 1.60 | 1.50 |
| **e** | - | - | 0.50 |
| **E** | 4.90 | 5.10 | 5.00 |
| **E2** | 2.80 | 3.00 | 2.90 |
| **L** | 0.35 | 0.65 | 0.50 |
| **Z** | - | - | 0.375 |
| **All Dimensions in mm** | | | |

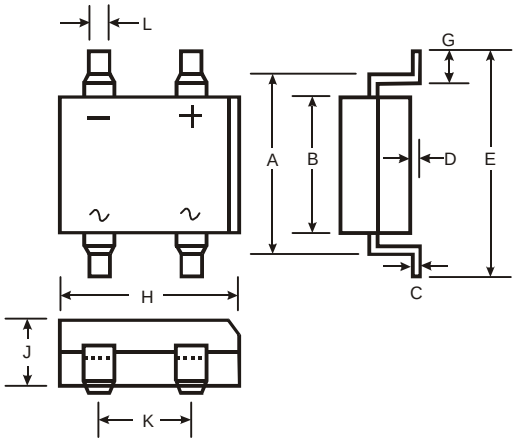

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## W-DFN5060-4




| W-DFN5060-4 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.75 | 0.85 | 0.80 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.203 |
| **b** | 0.60 | 0.70 | 0.65 |
| **D** | 4.95 | 5.05 | 5.00 |
| **e** | - | - | 4.00 |
| **E** | 5.95 | 6.05 | 6.00 |
| **L** | 0.60 | 0.70 | 0.65 |
| **L1** | 0.05 | 0.15 | 0.10 |
| **All Dimensions in mm** | | | |

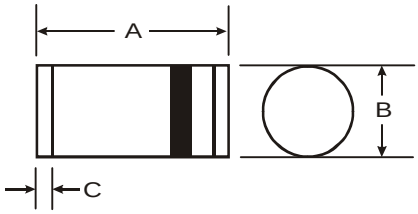
## DF-S / MiniDIP




| DF-S | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 7.40 | 7.90 |
| **B** | 6.20 | 6.50 |
| **C** | 0.22 | 0.30 |
| **D** | 0.076 | 0.33 |
| **E** | - | 10.40 |
| **G** | 1.02 | 1.53 |
| **H** | 8.13 | 8.51 |
| **J** | 2.40 | 2.60 |
| **K** | 5.00 | 5.20 |
| **L** | 1.00 | 1.20 |
| **All Dimensions in mm** | | |

| MiniDIP | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 5.43 | 5.75 |
| **B** | 3.6 | 4.0 |
| **C** | 0.15 | 0.35 |
| **D** | 0.05 | 0.20 |
| **E** | - | 7.0 |
| **G** | 0.70 | 1.10 |
| **H** | 4.5 | 4.9 |
| **J** | 2.3 | 2.7 |
| **K** | 2.3 | 2.7 |
| **L** | 0.50 | 0.80 |
| **All Dimensions in mm** | | |

## MiniMELF / MELF

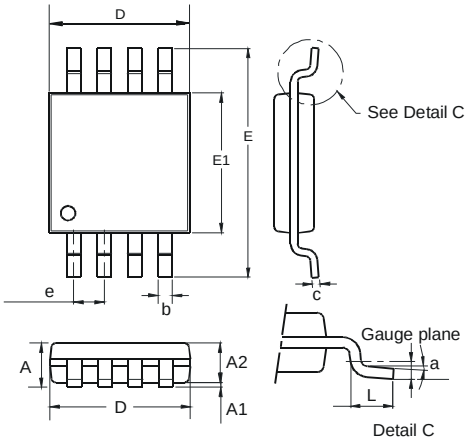



| MiniMELF | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.30 | 3.70 |
| **B** | 1.30 | 1.60 |
| **C** | 0.28 | 0.50 |
| **All Dimensions in mm** | | |

| MELF | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 4.80 | 5.20 |
| **B** | 2.40 | 2.60 |
| **C** | 0.55 Typ | |
| **All Dimensions in mm** | | |

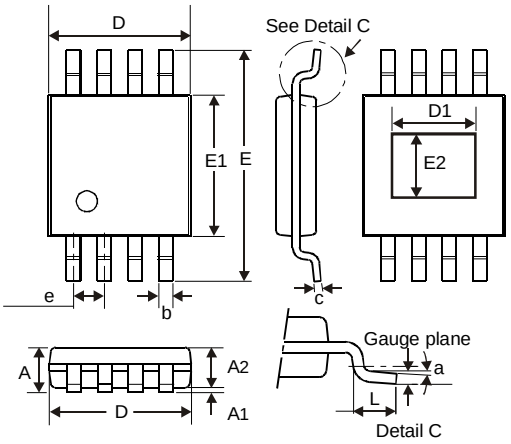

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**MSOP-8**



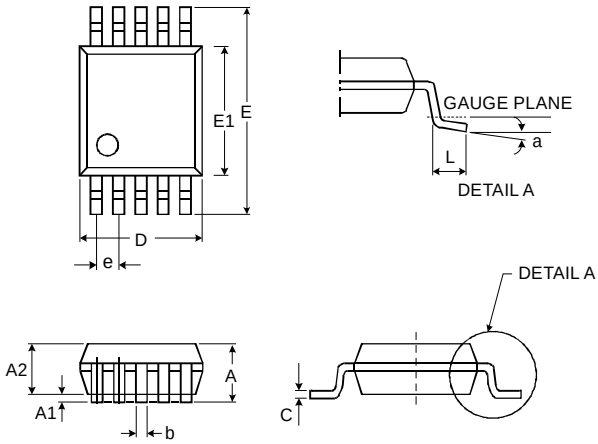

| MSOP-8 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **a** | 0° | 6° | 4° |
| **A** | - | 1.10 | - |
| **A1** | 0.05 | 0.15 | 0.10 |
| **A2** | 0.75 | 0.95 | 0.86 |
| **b** | 0.22 | 0.38 | 0.30 |
| **c** | 0.08 | 0.23 | 0.15 |
| **D** | 2.90 | 3.05 | 3.00 |
| **e** | - | - | 0.65 |
| **E** | 4.80 | 5.00 | 4.90 |
| **E1** | 2.90 | 3.00 | 3.10 |
| **L** | 0.40 | 0.80 | 0.60 |
| **All Dimensions in mm** | | | |

**MSOP-8EP**




| MSOP-8EP | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | - | 1.10 | - |
| **A1** | 0.05 | 0.15 | 0.10 |
| **A2** | 0.75 | 0.95 | 0.86 |
| **b** | 0.22 | 0.38 | 0.30 |
| **c** | 0.08 | 0.23 | 0.15 |
| **D** | 2.90 | 3.10 | 3.00 |
| **D1** | 1.65 | - | 1.95 |
| **E** | 4.70 | 5.10 | 4.90 |
| **E1** | 2.90 | 3.00 | 3.10 |
| **E2** | 1.35 | - | 1.65 |
| **e** | - | - | 0.65 |
| **L** | 0.40 | 0.80 | 0.60 |
| **a** | 0 | 8° | 4° |
| **All Dimensions in mm** | | | |

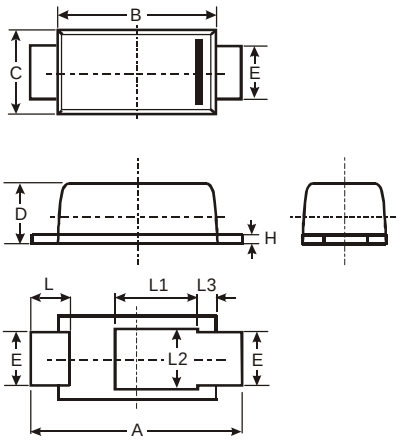
**MSOP-10**




| MSOP-10 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **a** | 0° | 8° | 4° |
| **A** | - | 1.10 | - |
| **A1** | 0.05 | 0.15 | 0.10 |
| **A** | 0.75 | 0.95 | 0.86 |
| **b** | 0.17 | 0.27 | 0.20 |
| **c** | 0.08 | 0.23 | 0.15 |
| **D** | 2.95 | 3.05 | 3.00 |
| **e** | - | - | 0.50 |
| **E** | 4.80 | 5.00 | 4.90 |
| **E1** | 2.95 | 3.05 | 3.00 |
| **L** | 0.40 | 0.80 | 0.60 |
| **All Dimensions in mm** | | | |

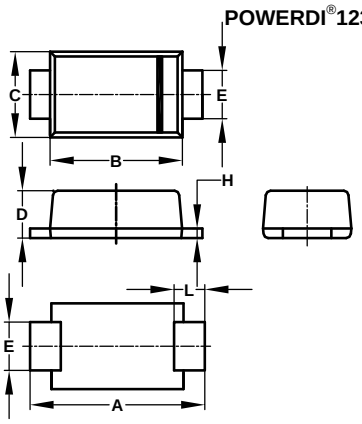

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## POWERDI®123



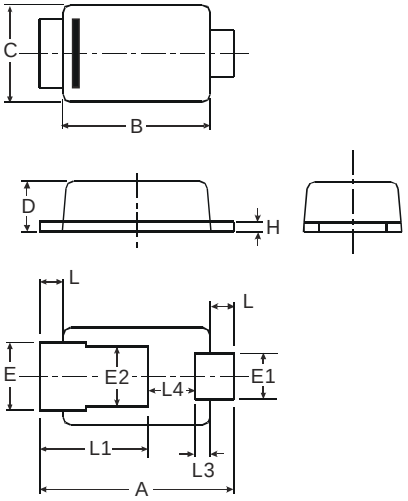

| POWERDI®123 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 3.50 | 3.90 | 3.70 |
| B | 2.60 | 3.00 | 2.80 |
| C | 1.63 | 1.93 | 1.78 |
| D | 0.93 | 1.00 | 0.98 |
| E | 0.85 | 1.25 | 1.00 |
| H | 0.15 | 0.25 | 0.20 |
| L | 0.40 | 0.50 | 0.45 |
| L1 | - | - | 1.35 |
| L2 | - | - | 1.10 |
| L3 | - | - | 0.20 |
| All Dimensions in mm | | | |

## POWERDI®123 Type B



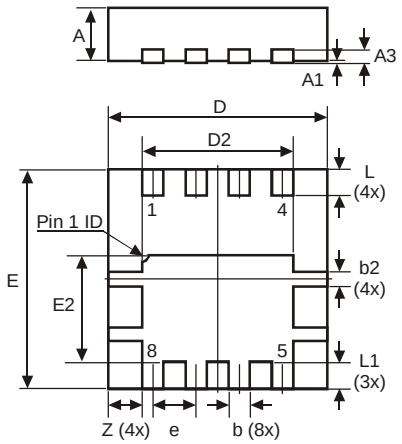

| PowerDI-123 Type B | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 3.50 | 3.90 | 3.70 |
| B | 2.60 | 3.00 | 2.80 |
| C | 1.63 | 1.93 | 1.78 |
| D | 0.93 | 1.00 | 0.98 |
| E | 0.85 | 1.25 | 1.00 |
| H | 0.15 | 0.25 | 0.20 |
| L | 0.50 | 0.80 | 0.65 |
| All Dimensions in mm | | | |

## POWERDI®323




| POWERDI®323 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 2.40 | 2.60 | 2.50 |
| B | 1.85 | 1.95 | 1.90 |
| C | 1.20 | 1.30 | 1.25 |
| D | 0.60 | 0.70 | 0.65 |
| E | 0.78 | 0.98 | 0.88 |
| E1 | 0.50 | 0.70 | 0.60 |
| E2 | 0.60 | 1.00 | 0.80 |
| H | 0.08 | 0.18 | 0.13 |
| L | 0.20 | 0.40 | 0.30 |
| L1 | - | - | 1.40 |
| L3 | - | - | 0.20 |
| L4 | 0.40 | 0.80 | 0.60 |
| All Dimensions in mm | | | |

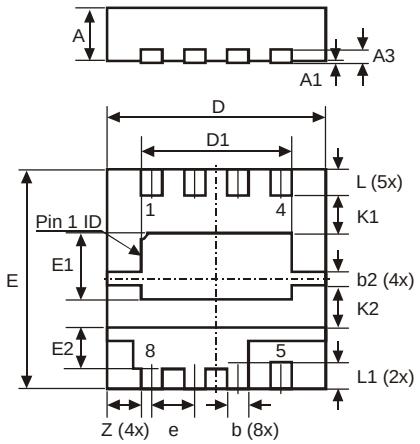
## POWERDI®3333-8




| POWERDI®3333-8 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| D | 3.25 | 3.35 | 3.30 |
| E | 3.2 | 3.35 | 3.30 |
| D2 | 2.22 | 2.32 | 2.27 |
| E2 | 1.56 | 1.66 | 1.61 |
| A | 0.75 | 0.85 | 0.80 |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.203 |
| b | 0.27 | 0.37 | 0.32 |
| b2 | - | - | 0.20 |
| L | 0.35 | 0.45 | 0.40 |
| L1 | - | - | 0.39 |
| e | - | - | 0.65 |
| Z | - | - | 0.515 |
| All Dimensions in mm | | | |

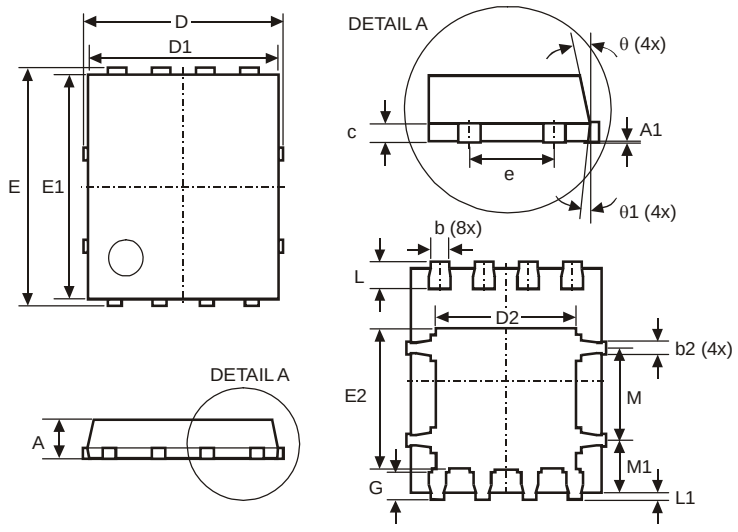

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## POWERDI®3333B-8



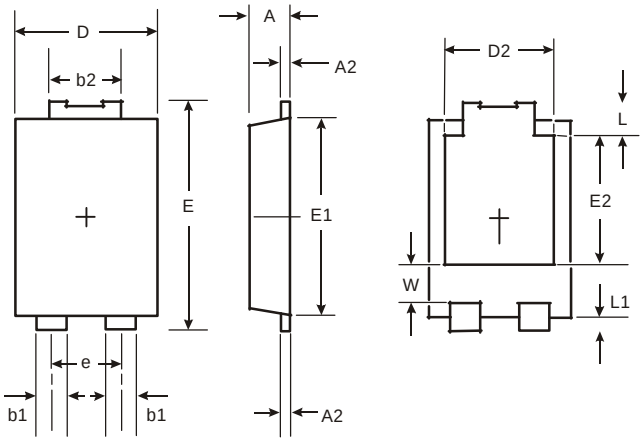

| POWERDI®3333B-8 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| D | 3.25 | 3.35 | 3.30 |
| E | 3.25 | 3.35 | 3.30 |
| D1 | 2.55 | 2.66 | 2.61 |
| E1 | 1.14 | 1.24 | 1.19 |
| D2 | 1.74 | 1.84 | 1.79 |
| E2 | 0.61 | 0.71 | 0.66 |
| A | 0.75 | 0.85 | 0.80 |
| A1 | 0 | 0.05 | 0.02 |
| A3 | - | - | 0.203 |
| b | 0.27 | 0.37 | 0.32 |
| b2 | - | - | 0.20 |
| K1 | - | - | 0.41 |
| K2 | - | - | 0.38 |
| L | 0.35 | 0.45 | 0.40 |
| L1 | - | - | 0.25 |
| e | - | - | 0.65 |
| Z | - | - | 0.515 |
| All Dimensions in mm | | | |

## POWERDI®5060-8




| POWERDI®5060-8 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.90 | 1.10 | 1.00 |
| A1 | 0.00 | 0.05 | - |
| b | 0.33 | 0.51 | 0.41 |
| b2 | 0.200 | 0.350 | 0.273 |
| c | 0.230 | 0.330 | 0.277 |
| D | 5.15BSC | | |
| D1 | 4.70 | 5.10 | 4.90 |
| D2 | 3.50 | 4.40 | 3.90 |
| E | 6.15BSC | | |
| E1 | 5.60 | 6.00 | 5.80 |
| E2 | 3.28 | 3.68 | 3.48 |
| e | 1.27BSC | | |
| G | 0.51 | 0.71 | 0.61 |
| L | 0.51 | 0.71 | 0.61 |
| L1 | 0.050 | 0.20 | 0.175 |
| M | 3.235 | 4.035 | 3.635 |
| M1 | 1.00 | 1.40 | 1.21 |
| θ | 10° | 12° | 11° |
| θ1 | 6° | 8° | 7° |
| All Dimensions in mm | | | |

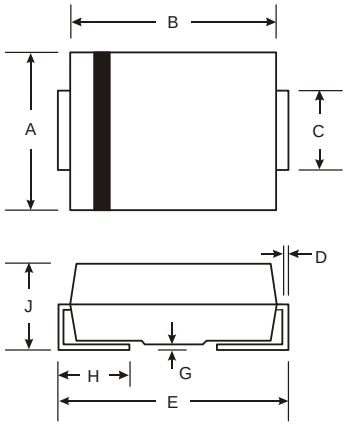
## POWERDI®5




| POWERDI®5 | | |
|---|---|---|
| Dim | Min | Max |
| A | 1.05 | 1.15 |
| A2 | 0.33 | 0.43 |
| b1 | 0.80 | 0.99 |
| b2 | 1.70 | 1.88 |
| D | 3.90 | 4.05 |
| D2 | 3.054 Typ | |
| E | 6.40 | 6.60 |
| e | 1.84 Typ | |
| E1 | 5.30 | 5.45 |
| E2 | 3.549 Typ | |
| L | 0.75 | 0.95 |
| L1 | 0.50 | 0.65 |
| W | 1.10 | 1.41 |
| All Dimensions in mm | | |


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## SMA, SMB, SMC

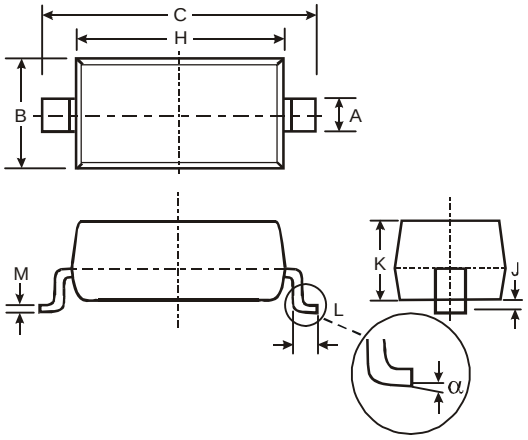



| SMA | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 2.29 | 2.92 |
| **B** | 4.00 | 4.60 |
| **C** | 1.27 | 1.63 |
| **D** | 0.15 | 0.31 |
| **E** | 4.80 | 5.59 |
| **G** | 0.05 | 0.20 |
| **H** | 0.76 | 1.52 |
| **J** | 2.01 | 2.30 |
| **All Dimensions in mm** | | |

| SMB | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.30 | 3.94 |
| **B** | 4.06 | 4.57 |
| **C** | 1.96 | 2.21 |
| **D** | 0.15 | 0.31 |
| **E** | 5.00 | 5.59 |
| **G** | 0.05 | 0.20 |
| **H** | 0.76 | 1.52 |
| **J** | 2.00 | 2.50 |
| **All Dimensions in mm** | | |

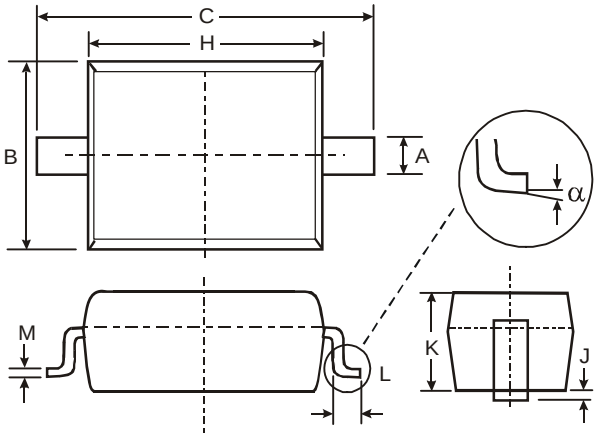
| SMC | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 5.59 | 6.22 |
| **B** | 6.60 | 7.11 |
| **C** | 2.75 | 3.18 |
| **D** | 0.15 | 0.31 |
| **E** | 7.75 | 8.13 |
| **G** | 0.10 | 0.20 |
| **H** | 0.76 | 1.52 |
| **J** | 2.00 | 2.50 |
| **All Dimensions in mm** | | |

## SOD123




| SOD123 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 0.55 Typ | |
| **B** | 1.40 | 1.70 |
| **C** | 3.55 | 3.85 |
| **H** | 2.55 | 2.85 |
| **J** | 0.00 | 0.10 |
| **K** | 1.00 | 1.35 |
| **L** | 0.25 | 0.40 |
| **M** | 0.10 | 0.15 |
| **α** | 0 | 8° |
| **All Dimensions in mm** | | |

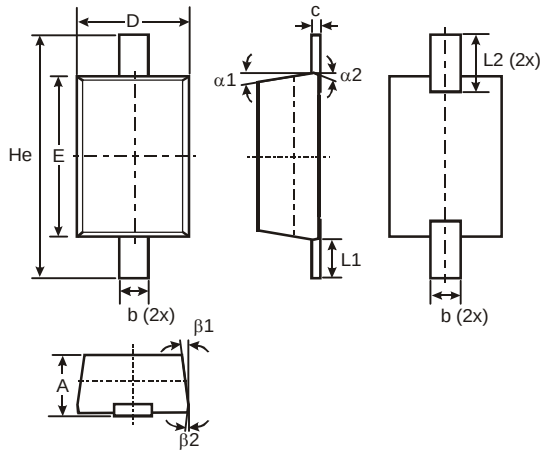
## SOD323




| SOD323 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 0.25 | 0.35 |
| **B** | 1.20 | 1.40 |
| **C** | 2.30 | 2.70 |
| **H** | 1.60 | 1.80 |
| **J** | 0.00 | 0.10 |
| **K** | 1.0 | 1.1 |
| **L** | 0.20 | 0.40 |
| **M** | 0.10 | 0.15 |
| **α** | 0° | 8° |
| **All Dimensions in mm** | | |

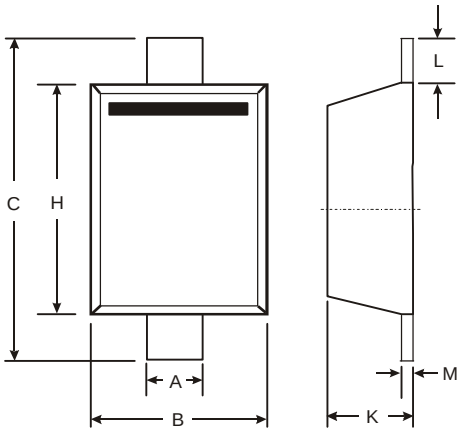

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## SOD323F



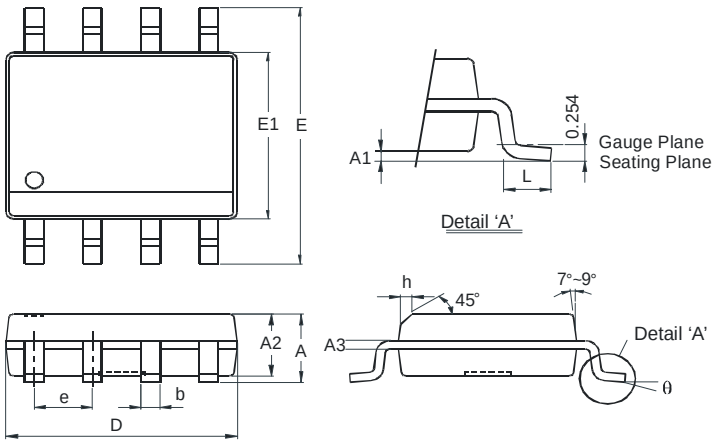

| SOD323F | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.60 | 0.75 | - |
| **b** | 0.25 | 0.35 | - |
| **c** | 0.05 | 0.26 | - |
| **D** | 1.15 | 1.35 | 1.25 |
| **E** | 1.60 | 1.80 | 1.70 |
| **He** | 2.30 | 2.70 | 2.50 |
| **L1** | 0.30 | 0.50 | 0.40 |
| **L2** | 0.41 | 0.61 | 0.51 |
| **α1** | - | - | 7° |
| **α2** | - | - | 3° |
| **β1** | - | - | 7° |
| **β2** | - | - | 3° |
| **All Dimensions in mm** | | | |

## SOD523




| SOD523 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 0.25 | 0.35 |
| **B** | 0.70 | 0.90 |
| **C** | 1.50 | 1.70 |
| **H** | 1.10 | 1.30 |
| **K** | 0.55 | 0.65 |
| **L** | 0.10 | 0.30 |
| **M** | 0.10 | 0.12 |
| **All Dimensions in mm** | | |

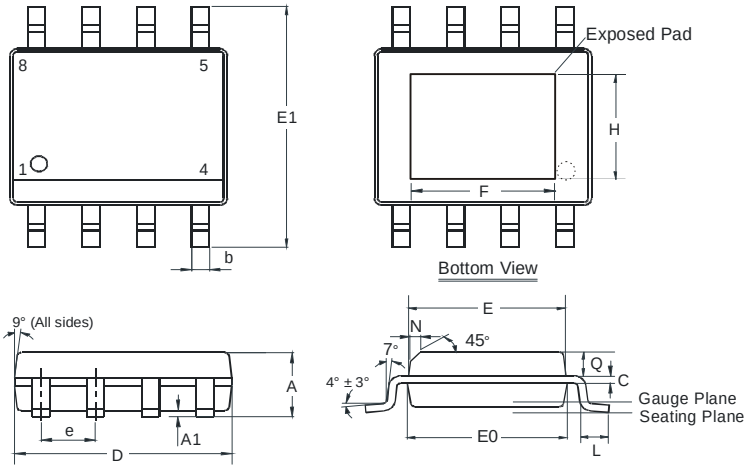
## SO-8




| SO-8 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | - | 1.75 |
| **A1** | 0.10 | 0.20 |
| **A2** | 1.30 | 1.50 |
| **A3** | 0.15 | 0.25 |
| **b** | 0.3 | 0.5 |
| **D** | 4.85 | 4.95 |
| **E** | 5.90 | 6.10 |
| **E1** | 3.85 | 3.95 |
| **e** | 1.27 Typ | |
| **h** | - | 0.35 |
| **L** | 0.62 | 0.82 |
| **θ** | 0° | 8° |
| **All Dimensions in mm** | | |

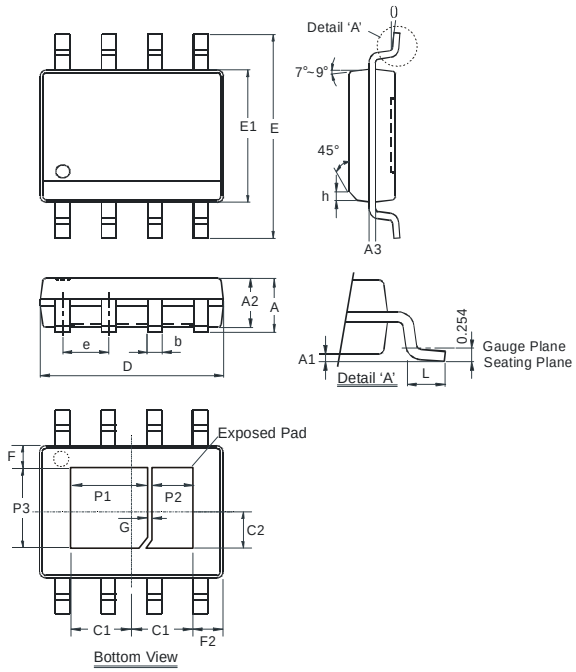

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## SO-8EP (SOP-8L-EP)



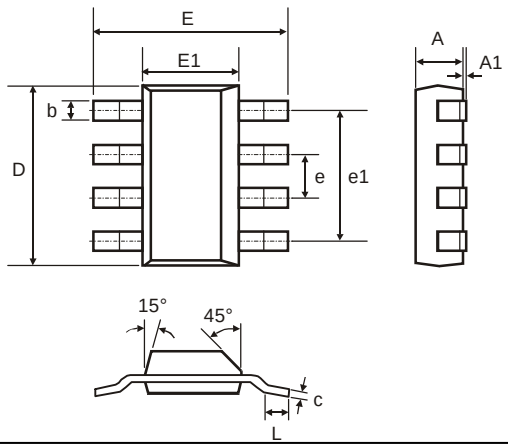

| SO-8EP (SOP-8L-EP) | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 1.40 | 1.50 | 1.45 |
| **A1** | 0.00 | 0.13 | - |
| **b** | 0.30 | 0.50 | 0.40 |
| **C** | 0.15 | 0.25 | 0.20 |
| **D** | 4.85 | 4.95 | 4.90 |
| **E** | 3.80 | 3.90 | 3.85 |
| **E0** | 3.85 | 3.95 | 3.90 |
| **E1** | 5.90 | 6.10 | 6.00 |
| **e** | - | - | 1.27 |
| **F** | 2.75 | 3.35 | 3.05 |
| **H** | 2.11 | 2.71 | 2.41 |
| **L** | 0.62 | 0.82 | 0.72 |
| **N** | - | - | 0.35 |
| **Q** | 0.60 | 0.70 | 0.65 |
| **All Dimensions in mm** | | | |

## SOP-8L-DEP




| SOP-8L-DEP | | | | | |
|---|---|---|---|---|---|
| **Dim** | **Min** | **Max** | **Dim** | **Min** | **Max** |
| **A** | - | 1.75 | **e** | 1.27 Typ | |
| **A1** | 0.10 | 0.20 | **F1** | 0.685 Typ | |
| **A2** | 1.30 | 1.50 | **F2** | 0.713 Typ | |
| **A3** | 0.15 | 0.25 | **G** | 0.20 Typ | |
| **b** | 0.3 | 0.5 | **h** | - | 0.35 |
| **C1** | 1.7 Typ | | **L** | 0.62 | 0.82 |
| **C2** | 0.9 Typ | | **P1** | 2.05 Typ | |
| **D** | 4.85 | 4.95 | **P2** | 1.15 Typ | |
| **E** | 5.90 | 6.10 | **P3** | 2.15 Typ | |
| **E1** | 3.85 | 3.95 | **θ** | 0° | 8° |
| **All Dimensions in mm** | | | | | |

## SM-8

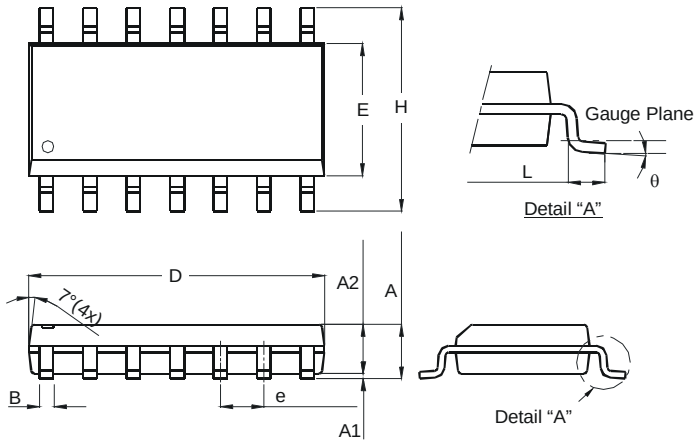



| SM-8 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | - | 1.7 | - |
| **A1** | 0.02 | 0.1 | - |
| **b** | - | 0.7 | - |
| **c** | 0.24 | 0.32 | - |
| **D** | 6.3 | 6.7 | - |
| **e** | - | - | 1.53 |
| **e1** | - | - | 4.59 |
| **E** | 6.7 | 7.3 | - |
| **E1** | 3.3 | 3.7 | - |
| **L** | 0.9 | - | - |
| **All Dimensions in mm** | | | |



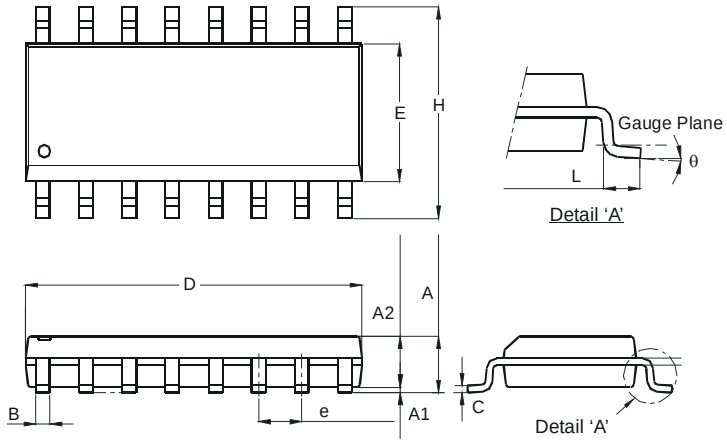
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## SOP-14



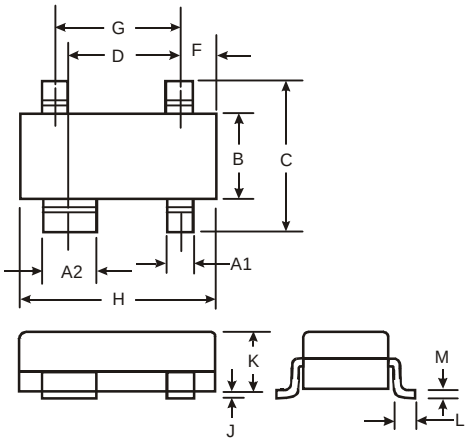

| SOP-14 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 1.47 | 1.73 |
| **A1** | 0.10 | 0.25 |
| **A2** | 1.45 Typ | |
| **B** | 0.33 | 0.51 |
| **D** | 8.53 | 8.74 |
| **E** | 3.80 | 3.99 |
| **e** | 1.27 Typ | |
| **H** | 5.80 | 6.20 |
| **L** | 0.38 | 1.27 |
| **θ** | 0° | 8° |
| **All Dimensions in mm** | | |

## SOP-16




| SOP-16 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 1.40 | 1.75 |
| **A1** | 0.10 | 0.25 |
| **A2** | 1.30 | 1.50 |
| **B** | 0.33 | 0.51 |
| **C** | 0.19 | 0.25 |
| **D** | 9.80 | 10.00 |
| **E** | 3.80 | 4.00 |
| **e** | 1.27 Typ | |
| **H** | 5.80 | 6.20 |
| **L** | 0.38 | 1.27 |
| **θ** | 0° | 8° |
| **All Dimensions in mm** | | |

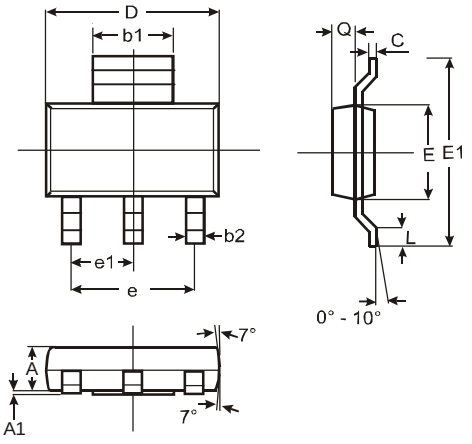
## SOT143




| SOT143 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A1** | 0.37 | 0.51 |
| **A2** | 0.77 | 0.93 |
| **B** | 1.20 | 1.40 |
| **C** | 2.28 | 2.48 |
| **D** | 1.58 | 1.83 |
| **F** | 0.45 | 0.60 |
| **G** | 1.78 | 2.03 |
| **H** | 2.80 | 3.00 |
| **J** | 0.013 | 1.00 |
| **K** | 0.89 | 0.10 |
| **L** | 0.46 | 0.60 |
| **M** | 0.085 | 0.18 |
| **All Dimensions in mm** | | |

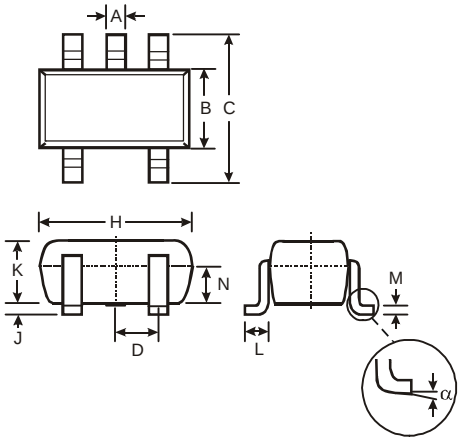

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## SOT223




| SOT223 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 1.55 | 1.65 | 1.60 |
| **A1** | 0.010 | 0.15 | 0.05 |
| **b1** | 2.90 | 3.10 | 3.00 |
| **b2** | 0.60 | 0.80 | 0.70 |
| **C** | 0.20 | 0.30 | 0.25 |
| **D** | 6.45 | 6.55 | 6.50 |
| **E** | 3.45 | 3.55 | 3.50 |
| **E1** | 6.90 | 7.10 | 7.00 |
| **e** | - | - | 4.60 |
| **e1** | - | - | 2.30 |
| **L** | 0.85 | 1.05 | 0.95 |
| **Q** | 0.84 | 0.94 | 0.89 |
| **All Dimensions in mm** | | | |

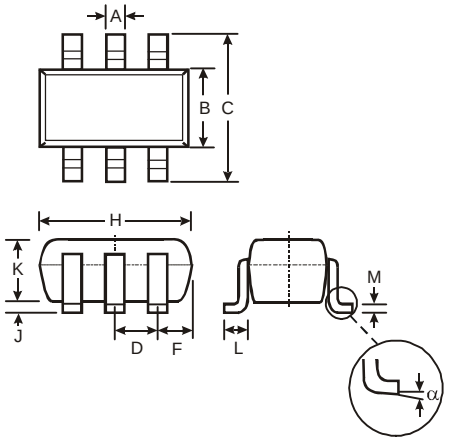
## SOT25 / SOT353




| SOT25 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.35 | 0.50 | 0.38 |
| **B** | 1.50 | 1.70 | 1.60 |
| **C** | 2.70 | 3.00 | 2.80 |
| **D** | - | - | 0.95 |
| **H** | 2.90 | 3.10 | 3.00 |
| **J** | 0.013 | 0.10 | 0.05 |
| **K** | 1.00 | 1.30 | 1.10 |
| **L** | 0.35 | 0.55 | 0.40 |
| **M** | 0.10 | 0.20 | 0.15 |
| **N** | 0.70 | 0.80 | 0.75 |
| **α** | 0° | 8° | - |
| **All Dimensions in mm** | | | |

| SOT353 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 0.10 | 0.30 |
| **B** | 1.15 | 1.35 |
| **C** | 2.00 | 2.20 |
| **D** | 0.65 Typ | |
| **F** | 0.40 | 0.45 |
| **H** | 1.80 | 2.20 |
| **J** | 0 | 0.10 |
| **K** | 0.90 | 1.00 |
| **L** | 0.25 | 0.40 |
| **M** | 0.10 | 0.22 |
| **α** | 0° | 8° |
| **All Dimensions in mm** | | |

## SC74R / SOT26 / SOT363



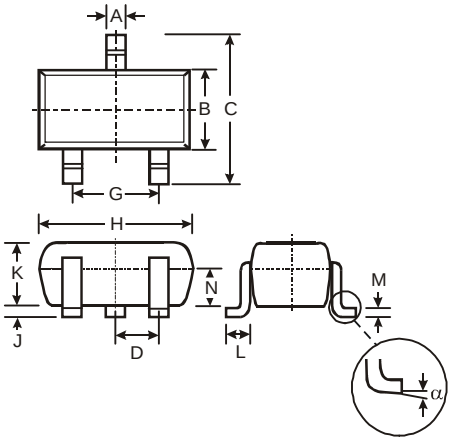

| SC74R | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.35 | 0.50 | 0.38 |
| **B** | 1.50 | 1.70 | 1.60 |
| **C** | 2.70 | 3.00 | 2.80 |
| **D** | - | - | 0.95 |
| **F** | - | - | - |
| **H** | 2.90 | 3.10 | 3.00 |
| **J** | 0.013 | 0.10 | 0.0 |
| **K** | 1.00 | 1.30 | 1.10 |
| **L** | 0.35 | 0.55 | 0.40 |
| **M** | 0.10 | 0.20 | 0.15 |
| **α** | 0° | 8° | - |
| **All Dimensions in mm** | | | |

| SOT26 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.35 | 0.50 | 0.38 |
| **B** | 1.50 | 1.70 | 1.60 |
| **C** | 2.70 | 3.00 | 2.80 |
| **D** | - | - | 0.95 |
| **F** | - | - | - |
| **H** | 2.90 | 3.10 | 3.00 |
| **J** | 0.013 | 0.10 | 0.05 |
| **K** | 1.00 | 1.30 | 1.10 |
| **L** | 0.35 | 0.55 | 0.40 |
| **M** | 0.10 | 0.20 | 0.15 |
| **α** | 0° | 8° | - |
| **All Dimensions in mm** | | | |

| SOT363 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 0.10 | 0.30 |
| **B** | 1.15 | 1.35 |
| **C** | 2.00 | 2.20 |
| **D** | 0.65 Typ | |
| **F** | 0.40 | 0.45 |
| **H** | 1.80 | 2.20 |
| **J** | 0 | 0.10 |
| **K** | 0.90 | 1.00 |
| **L** | 0.25 | 0.40 |
| **M** | 0.10 | 0.22 |
| **α** | 0° | 8° |
| **All Dimensions in mm** | | |


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## SC59 / SOT323 / SOT523

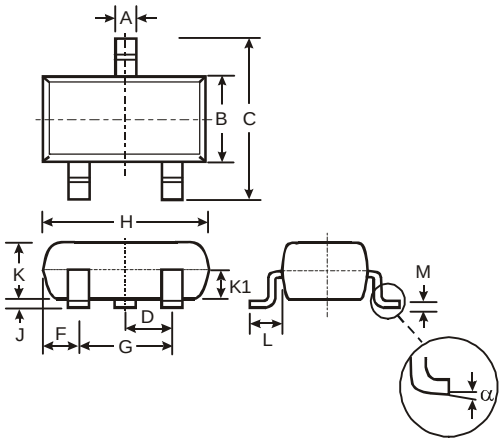



| SC59 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.35 | 0.50 | 0.38 |
| B | 1.50 | 1.70 | 1.60 |
| C | 2.70 | 3.00 | 2.80 |
| D | - | - | 0.95 |
| G | - | - | 1.90 |
| H | 2.90 | 3.10 | 3.00 |
| J | 0.013 | 0.10 | 0.05 |
| K | 1.00 | 1.30 | 1.10 |
| L | 0.35 | 0.55 | 0.40 |
| M | 0.10 | 0.20 | 0.15 |
| N | 0.70 | 0.80 | 0.75 |
| α | 0° | 8° | - |
| All Dimensions in mm | | | |

| SOT323 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.25 | 0.40 | 0.30 |
| B | 1.15 | 1.35 | 1.30 |
| C | 2.00 | 2.20 | 2.10 |
| D | - | - | 0.65 |
| G | 1.20 | 1.40 | 1.30 |
| H | 1.80 | 2.20 | 2.15 |
| J | 0.0 | 0.10 | 0.05 |
| K | 0.90 | 1.00 | 1.00 |
| L | 0.25 | 0.40 | 0.30 |
| M | 0.10 | 0.18 | 0.11 |
| N | - | - | - |
| α | 0° | 8° | - |
| All Dimensions in mm | | | |

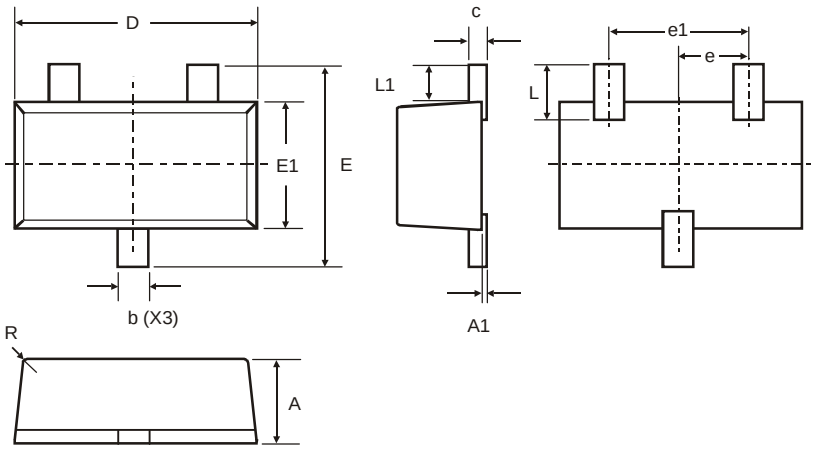
| SOT523 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.15 | 0.30 | 0.22 |
| B | 0.75 | 0.85 | 0.80 |
| C | 1.45 | 1.75 | 1.60 |
| D | - | - | 0.50 |
| G | 0.90 | 1.10 | 1.00 |
| H | 1.50 | 1.70 | 1.60 |
| J | 0.00 | 0.10 | 0.05 |
| K | 0.60 | 0.80 | 0.75 |
| L | 0.10 | 0.30 | 0.22 |
| M | 0.10 | 0.20 | 0.12 |
| N | 0.45 | 0.65 | 0.50 |
| α | 0° | 8° | - |
| All Dimensions in mm | | | |

## SOT23




| SOT23 | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.37 | 0.51 | 0.40 |
| B | 1.20 | 1.40 | 1.30 |
| C | 2.30 | 2.50 | 2.40 |
| D | 0.89 | 1.03 | 0.915 |
| F | 0.45 | 0.60 | 0.535 |
| G | 1.78 | 2.05 | 1.83 |
| H | 2.80 | 3.00 | 2.90 |
| J | 0.013 | 0.10 | 0.05 |
| K | 0.903 | 1.10 | 1.00 |
| K1 | - | - | 0.400 |
| L | 0.45 | 0.61 | 0.55 |
| M | 0.085 | 0.18 | 0.11 |
| α | 0° | 8° | - |
| All Dimensions in mm | | | |

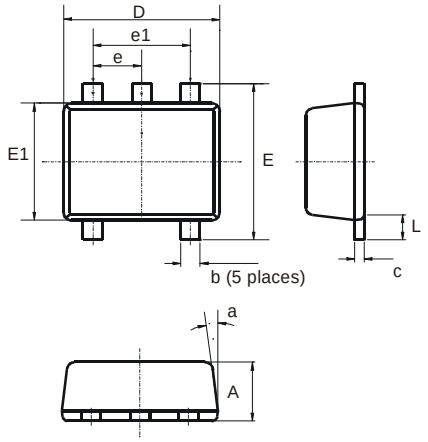
## SOT23F




| SOT23F | | | |
|---|---|---|---|
| Dim | Min | Max | Typ |
| A | 0.80 | 1.00 | 0.90 |
| A1 | 0.00 | 0.10 | - |
| b | 0.35 | 0.45 | 0.40 |
| c | 0.10 | 0.20 | 0.15 |
| D | 2.80 | 3.00 | 2.90 |
| e | - | - | 0.95 |
| e1 | 1.80 | 2.00 | 1.90 |
| E | 2.30 | 2.50 | 2.40 |
| E1 | 1.50 | 1.70 | 1.60 |
| L | 0.48 | 0.68 | 0.58 |
| L1 | 0.30 | 0.50 | 0.40 |
| R | 0.05 | 0.15 | 0.10 |
| All Dimensions in mm | | | |

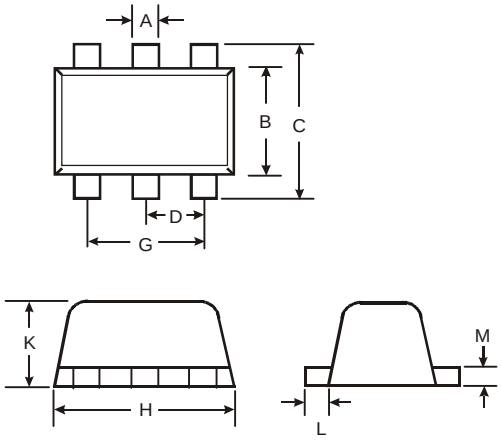

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**SOT553**



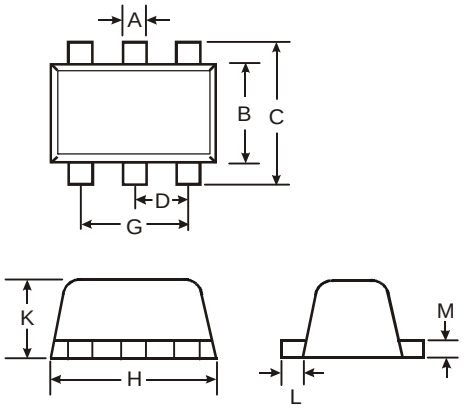

| SOT553 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.55 | 0.60 | 0.60 |
| **c** | 0.10 | 0.18 | 0.15 |
| **D** | 1.50 | 1.70 | 1.60 |
| **E** | 1.55 | 1.70 | 1.60 |
| **E1** | 1.10 | 1.25 | 1.20 |
| **L** | 0.10 | 0.30 | 0.20 |
| **b** | 0.15 | 0.30 | 0.20 |
| **e** | 0.50 Typ | | |
| **e1** | 1.00 Typ | | |
| **a** | 6° | 8° | 7° |
| **All Dimensions in mm** | | | |

**SOT563**




| SOT563 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.15 | 0.30 | 0.20 |
| **B** | 1.10 | 1.25 | 1.20 |
| **C** | 1.55 | 1.70 | 1.60 |
| **D** | - | - | 0.50 |
| **G** | 0.90 | 1.10 | 1.00 |
| **H** | 1.50 | 1.70 | 1.60 |
| **K** | 0.55 | 0.60 | 0.60 |
| **L** | 0.10 | 0.30 | 0.20 |
| **M** | 0.10 | 0.18 | 0.11 |
| **All Dimensions in mm** | | | |

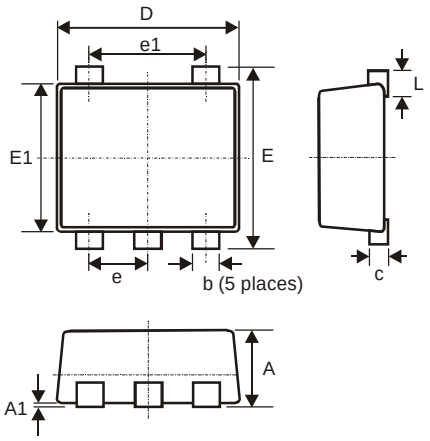
**SOT666**




| SOT666 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.15 | 0.30 | 0.20 |
| **B** | 1.10 | 1.25 | 1.20 |
| **C** | 1.55 | 1.70 | 1.60 |
| **D** | - | 0.50 | - |
| **G** | 0.90 | 1.10 | 1.00 |
| **H** | 1.50 | 1.70 | 1.60 |
| **K** | 0.55 | 0.60 | 0.60 |
| **L** | 0.10 | 0.30 | 0.20 |
| **M** | 0.10 | 0.18 | 0.15 |
| **All Dimensions in mm** | | | |

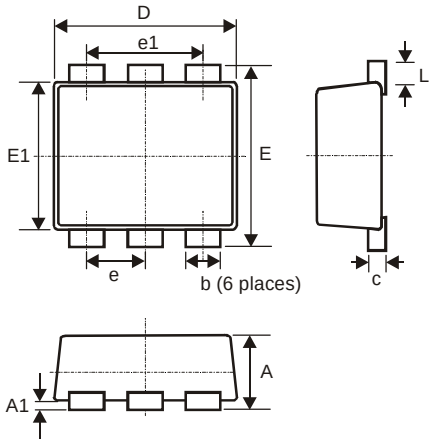

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**SOT953**



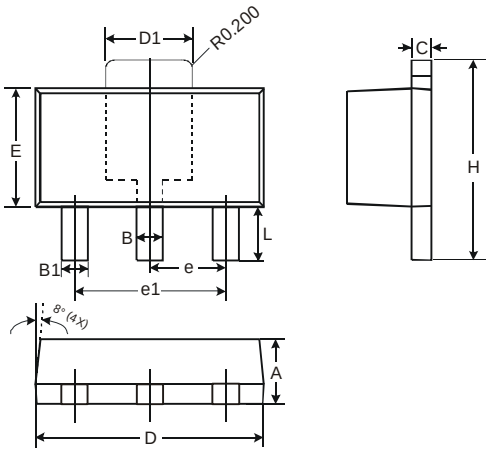

| SOT953 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.40 | 0.50 | 0.45 |
| **A1** | 0 | 0.05 | - |
| **b** | 0.10 | 0.20 | 0.15 |
| **c** | 0.12 | 0.18 | 0.15 |
| **D** | 0.95 | 1.05 | 1.00 |
| **E** | 0.95 | 1.05 | 1.00 |
| **E1** | 0.75 | 0.85 | 0.80 |
| **e** | - | - | 0.35 |
| **e1** | - | - | 0.70 |
| **L** | 0.05 | 0.15 | 0.10 |
| **All Dimensions in mm** | | | |

**SOT963**




| SOT963 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.40 | 0.50 | 0.45 |
| **A1** | 0 | 0.05 | - |
| **c** | 0.120 | 0.180 | 0.150 |
| **D** | 0.95 | 1.05 | 1.00 |
| **E** | 0.95 | 1.05 | 1.00 |
| **E1** | 0.75 | 0.85 | 0.80 |
| **L** | 0.05 | 0.15 | 0.10 |
| **b** | 0.10 | 0.20 | 0.15 |
| **e** | 0.35 Typ | | |
| **e1** | 0.70 Typ | | |
| **All Dimensions in mm** | | | |

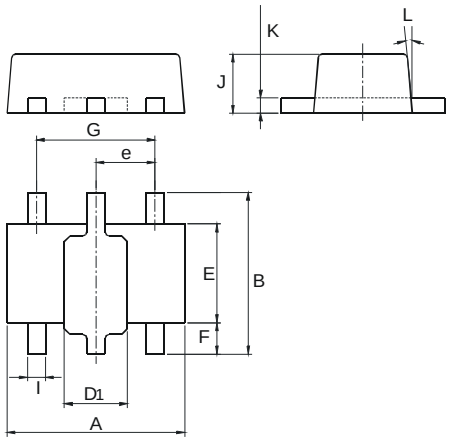
**SOT89**




| SOT89 | | |
|---|---|---|
| **Dim** | **Min** | Max |
| **A** | 1.40 | 1.60 |
| **B** | 0.44 | 0.62 |
| **B1** | 0.35 | 0.54 |
| **C** | 0.35 | 0.43 |
| **D** | 4.40 | 4.60 |
| **D1** | 1.52 | 1.83 |
| **E** | 2.29 | 2.60 |
| **e** | 1.50 Typ | |
| **e1** | 3.00 Typ | |
| **H** | 3.94 | 4.25 |
| **L** | 0.89 | 1.20 |
| **All Dimensions in mm** | | |

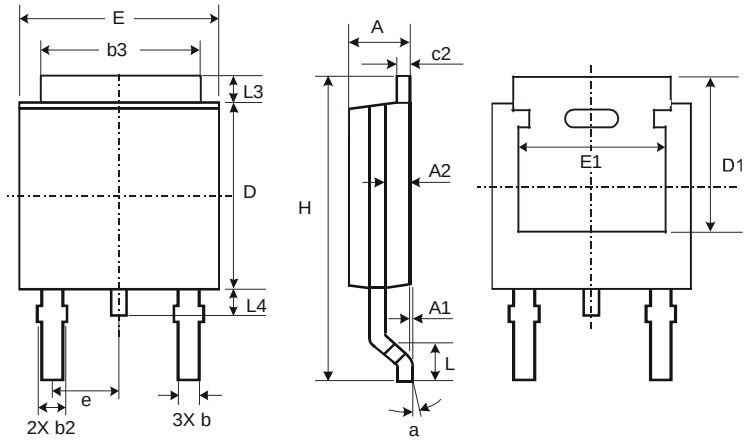

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## SOT89-5



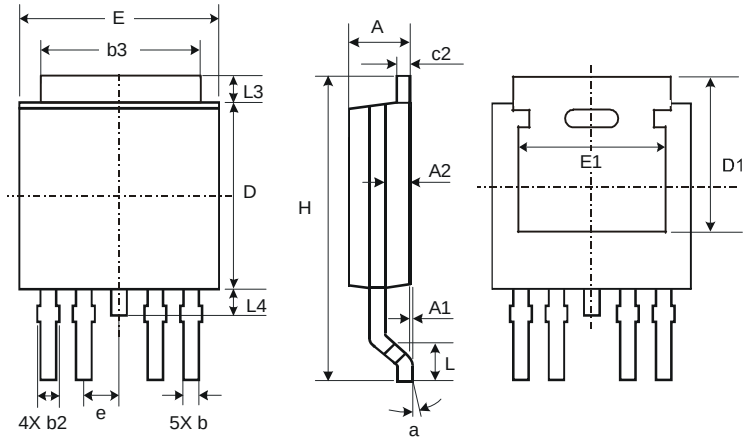

| SOT89-5 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 4.40 | 4.60 |
| **B** | 4.05 | 4.25 |
| **D1** | 1.50 | 1.70 |
| **e** | 1.50 Typ | |
| **E** | 2.40 | 2.60 |
| **F** | 0.80 | - |
| **G** | 3.00 Typ | |
| **I** | 0.40 | 0.52 |
| **J** | 1.40 | 1.60 |
| **K** | 0.35 | 0.43 |
| **L** | 5° Typ | |
| **All Dimensions in mm** | | |

## TO252 (DPAK)




| TO252 (DPAK) | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 2.19 | 2.39 | 2.29 |
| **A1** | 0.00 | 0.13 | 0.08 |
| **A2** | 0.97 | 1.17 | 1.07 |
| **b** | 0.64 | 0.88 | 0.783 |
| **b2** | 0.76 | 1.14 | 0.95 |
| **b3** | 5.21 | 5.55 | 5.33 |
| **c2** | 0.45 | 0.58 | 0.531 |
| **D** | 6.00 | 6.20 | 6.10 |
| **D1** | 5.21 | - | - |
| **e** | - | - | 2.286 |
| **E** | 6.45 | 6.70 | 6.58 |
| **E1** | 4.32 | - | - |
| **H** | 9.40 | 10.41 | 9.91 |
| **L** | 1.40 | 1.78 | 1.59 |
| **L3** | 0.88 | 1.27 | 1.08 |
| **L4** | 0.64 | 1.02 | 0.83 |
| **a** | 0° | 10° | – |
| **All Dimensions in mm** | | | |

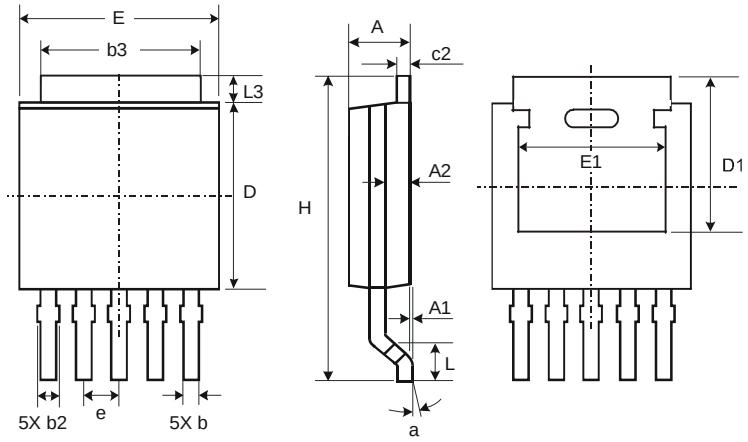
## TO252-4




| TO252-4 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 2.19 | 2.39 | 2.29 |
| **A1** | 0.00 | 0.13 | 0.08 |
| **A2** | 0.97 | 1.17 | 1.07 |
| **b** | 0.51 | 0.71 | 0.583 |
| **b2** | 0.61 | 0.79 | 0.70 |
| **b3** | 5.21 | 5.46 | 5.33 |
| **c2** | 0.45 | 0.58 | 0.531 |
| **D** | 6.00 | 6.20 | 6.10 |
| **D1** | 5.21 | - | - |
| **e** | - | - | 1.27 |
| **E** | 6.45 | 6.70 | 6.58 |
| **E1** | 4.32 | - | - |
| **H** | 9.40 | 10.41 | 9.91 |
| **L** | 1.40 | 1.78 | 1.59 |
| **L3** | 0.88 | 1.27 | 1.08 |
| **L4** | 0.64 | 1.02 | 0.83 |
| **a** | 0° | 10° | - |
| **All Dimensions in mm** | | | |

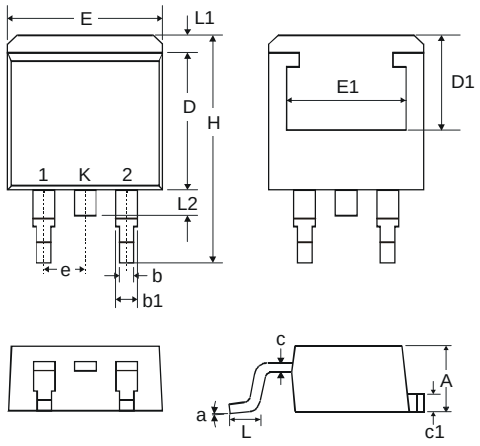

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## TO252-5



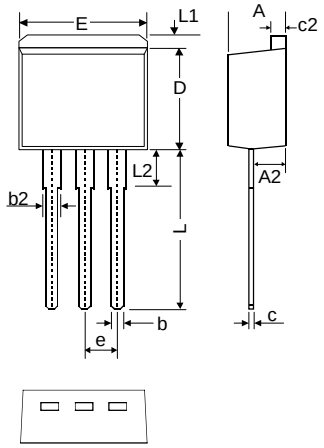

| TO252-5 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 2.19 | 2.39 | 2.29 |
| **A1** | 0.00 | 0.13 | 0.08 |
| **A2** | 0.97 | 1.17 | 1.07 |
| **b** | 0.51 | 0.71 | 0.583 |
| **b2** | 0.61 | 0.79 | 0.70 |
| **b3** | 5.21 | 5.46 | 5.33 |
| **c2** | 0.45 | 0.58 | 0.531 |
| **D** | 6.00 | 6.20 | 6.10 |
| **D1** | 5.21 | - | - |
| **e** | - | - | 1.27 |
| **E** | 6.45 | 6.70 | 6.58 |
| **E1** | 4.32 | - | - |
| **H** | 9.40 | 10.41 | 9.91 |
| **L** | 1.40 | 1.78 | 1.59 |
| **L3** | 0.88 | 1.27 | 1.08 |
| **a** | 0° | 10° | - |
| **All Dimensions in mm** | | | |

## TO263 ($D^2PAK$)




| TO263 ($D^2PAK$) | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 4.07 | 4.82 |
| **b** | 0.51 | 0.99 |
| **b1** | 1.15 | 1.77 |
| **c** | 0.356 | 0.58 |
| **c1** | 1.143 | 1.65 |
| **D** | 8.39 | 9.65 |
| **D1** | 6.55 | - |
| **E** | 9.66 | 10.66 |
| **E1** | 6.23 | - |
| **e** | 2.54 Typ | |
| **H** | 14.61 | 15.87 |
| **L** | 1.78 | 2.79 |
| **L1** | - | 1.67 |
| **L2** | - | 1.77 |
| **a** | 0° | 8° |
| **All Dimensions in mm** | | |

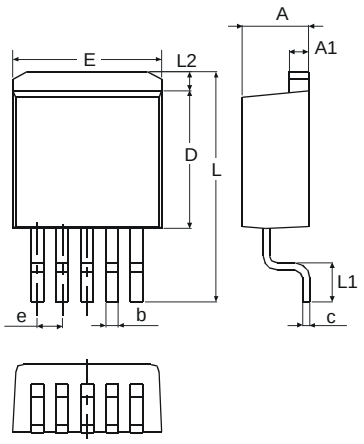
## TO262




| TO262 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 4.06 | 4.83 | 4.57 |
| **A2** | 2.03 | 2.79 | 2.67 |
| **b** | 0.64 | 0.99 | - |
| **b2** | 1.14 | 1.40 | 1.24 |
| **c** | 0.356 | 0.74 | - |
| **c2** | 1.14 | 1.40 | 1.27 |
| **D** | 8.64 | 9.65 | 8.70 |
| **E** | 9.65 | 10.29 | 10.11 |
| **e** | 2.54 Typ | | |
| **L** | 12.70 | 14.73 | 13.60 |
| **L1** | - | 1.67 | - |
| **L2** | - | 4.00 | - |
| **All Dimensions in mm** | | | |

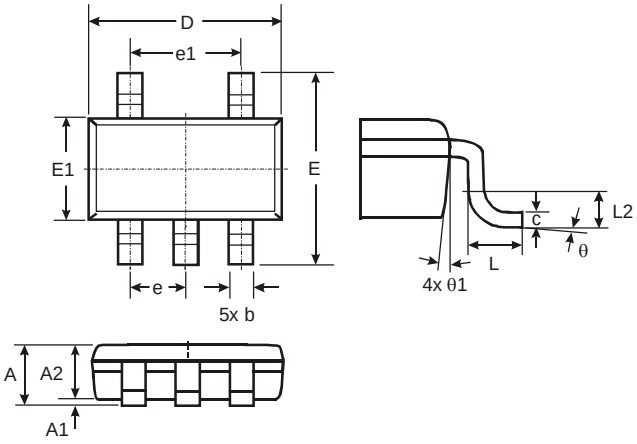

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**TO263-5**



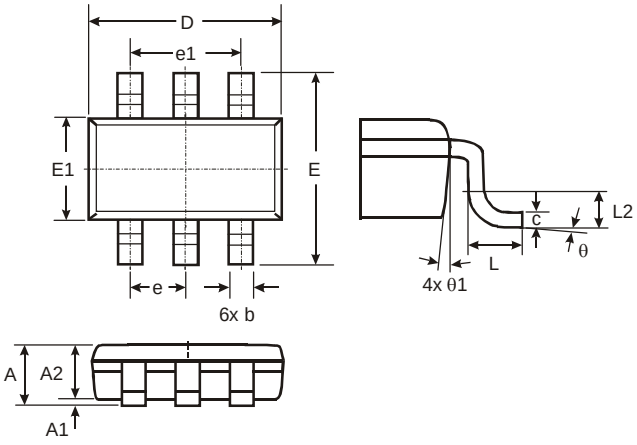

| TO263-5 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 4.07 | 4.85 |
| **A1** | 1.14 | 1.40 |
| **b** | 0.66 | 1.02 |
| **c** | 0.36 | 0.64 |
| **D** | 8.65 | 9.65 |
| **E** | 9.78 | 10.54 |
| **e** | 1.57 | 1.85 |
| **L** | 14.61 | 15.88 |
| **L1** | 2.29 | 2.79 |
| **L2** | - | 2.92 |
| **All Dimensions in mm** | | |

**TSOT25**




| TSOT25 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | - | 1.00 | - |
| **A1** | 0.01 | 0.10 | - |
| **A2** | 0.84 | 0.90 | - |
| **D** | - | - | 2.90 |
| **E** | - | - | 2.80 |
| **E1** | - | - | 1.60 |
| **b** | 0.30 | 0.45 | - |
| **c** | 0.12 | 0.20 | - |
| **e** | - | - | 0.95 |
| **e1** | - | - | 1.90 |
| **L** | 0.30 | 0.50 | |
| **L2** | - | - | 0.25 |
| **θ** | 0° | 8° | 4° |
| **θ1** | 4° | 12° | - |
| **All Dimensions in mm** | | | |

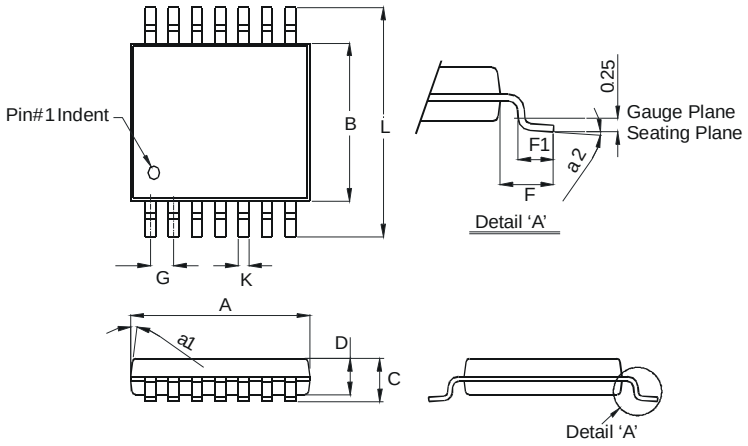
**TSOT26**




| TSOT26 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | - | 1.00 | - |
| **A1** | 0.01 | 0.10 | - |
| **A2** | 0.84 | 0.90 | - |
| **D** | - | - | 2.90 |
| **E** | - | - | 2.80 |
| **E1** | - | - | 1.60 |
| **b** | 0.30 | 0.45 | - |
| **c** | 0.12 | 0.20 | - |
| **e** | - | - | 0.95 |
| **e1** | - | - | 1.90 |
| **L** | 0.30 | 0.50 | - |
| **L2** | - | - | 0.25 |
| **θ** | 0° | 8° | 4° |
| **θ1** | 4° | 12° | - |
| **All Dimensions in mm** | | | |

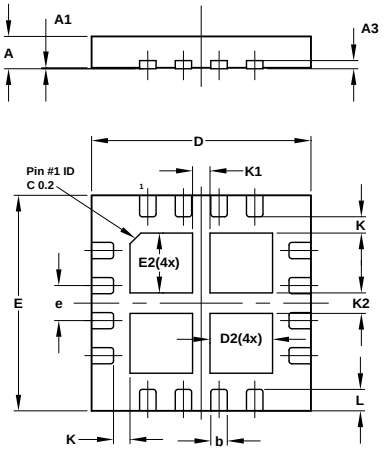

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**TSSOP-14**



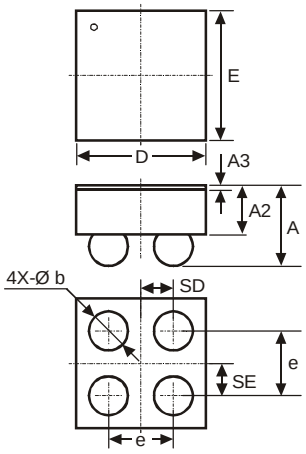

| TSSOP-14 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **a1** | 7° (4X) | |
| **a2** | 0° | 8° |
| **A** | 4.9 | 5.10 |
| **B** | 4.30 | 4.50 |
| **C** | - | 1.2 |
| **D** | 0.8 | 1.05 |
| **F** | 1.00 Typ | |
| **F1** | 0.45 | 0.75 |
| **G** | 0.65 Typ | |
| **K** | 0.19 | 0.30 |
| **L** | 6.40 Typ | |
| **All Dimensions in mm** | | |

**U-QFN4040-16-Type C**




| U-QFN4040-16 Type C | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 0.57 | 0.63 | 0.60 |
| **A1** | 0 | 0.05 | 0.02 |
| **A3** | - | - | 0.15 |
| **b** | 0.25 | 0.35 | 0.30 |
| **D** | 3.95 | 4.05 | 4.00 |
| **D2** | 1.04 | 1.24 | 1.14 |
| **E** | 3.95 | 4.05 | 4.00 |
| **E2** | 1.01 | 1.21 | 1.11 |
| **e** | - | - | 0.65 |
| **K** | - | - | 0.30 |
| **K1** | - | - | 0.32 |
| **K2** | - | - | 0.38 |
| **L** | 0.35 | 0.45 | 0.40 |
| **All Dimensions in mm** | | | |

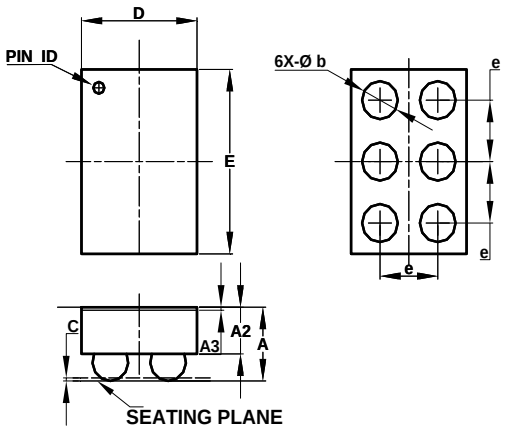
**U-WLB1010-4**




| U-WLB1010-4 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **D** | 0.95 | 1.05 | 1.00 |
| **E** | 0.95 | 1.05 | 1.00 |
| **A** | - | 0.62 | - |
| **A2** | - | - | 0.38 |
| **A3** | 0.015 | 0.025 | 0.025 |
| **b** | 0.25 | 0.35 | 0.30 |
| **e** | - | - | 0.50 |
| **SD** | - | - | 0.25 |
| **SE** | - | - | 0.25 |
| **All Dimensions in mm** | | | |


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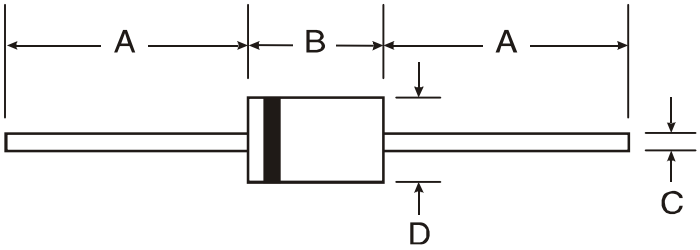
**U-WLB1510-6**




| U-WLB1510-6 | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | -- | 0.62 | -- |
| **A2** | -- | -- | 0.38 |
| **A3** | 0.020 | 0.030 | 0.025 |
| **b** | 0.27 | 0.37 | 0.32 |
| **D** | 0.90 | 1.00 | 1.00 |
| **E** | 1.40 | 1.50 | 1.50 |
| **e** | -- | -- | 0.50 |
| **All Dimensions in mm** | | | |


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## Axial / Through-Hole Packages




| DO-35 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | - | 4.00 |
| **C** | - | 0.60 |
| **D** | - | 2.00 |
| **All Dimensions in mm** | | |

| DO-41 Plastic | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 4.06 | 5.21 |
| **C** | 0.71 | 0.864 |
| **D** | 2.00 | 2.72 |
| **All Dimensions in mm** | | |

| DO-41 Glass | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | - | 4.70 |
| **C** | - | 0.863 |
| **D** | - | 2.71 |
| **All Dimensions in mm** | | |

| DO-15 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 5.50 | 7.62 |
| **C** | 0.686 | 0.889 |
| **D** | 2.60 | 3.60 |
| **All Dimensions in mm** | | |

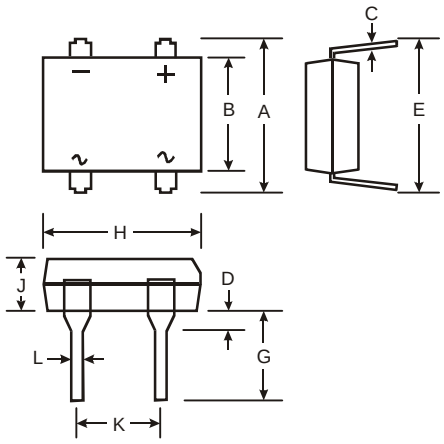
| DO-201 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 8.50 | 9.53 |
| **C** | 0.96 | 1.06 |
| **D** | 4.80 | 5.21 |
| **All Dimensions in mm** | | |

| DO-201AD | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 7.20 | 9.50 |
| **C** | 1.20 | 1.30 |
| **D** | 4.80 | 5.30 |
| **All Dimensions in mm** | | |

| R-6 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 8.60 | 9.10 |
| **C** | 1.20 | 1.30 |
| **D** | 8.60 | 9.10 |
| **All Dimensions in mm** | | |

| T-1 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 25.40 | - |
| **B** | 2.60 | 3.20 |
| **C** | 0.53 | 0.64 |
| **D** | 2.20 | 2.60 |
| **All Dimensions in mm** | | |

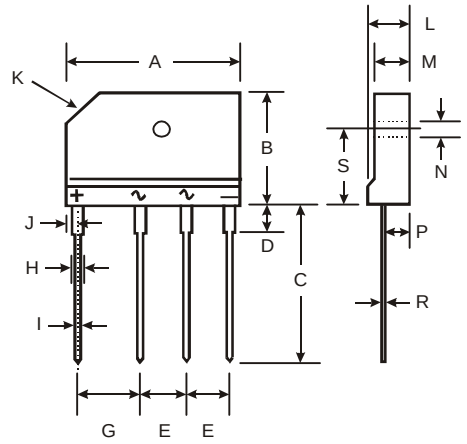
**DF-M**




| DF-M | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 7.40 | 7.90 |
| **B** | 6.20 | 6.50 |
| **C** | 0.22 | 0.30 |
| **D** | 1.27 | 2.03 |
| **E** | 7.60 | 8.90 |
| **G** | 3.81 | 4.69 |
| **H** | 8.13 | 8.51 |
| **J** | 2.40 | 3.40 |
| **K** | 5.00 | 5.20 |
| **L** | 0.46 | 0.58 |
| **All Dimensions in mm** | | |

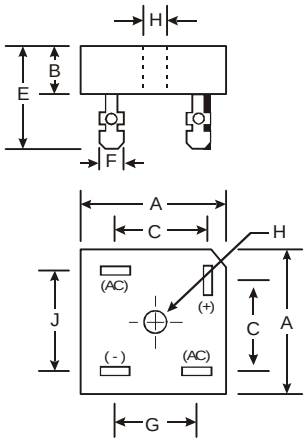

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**GBJ**



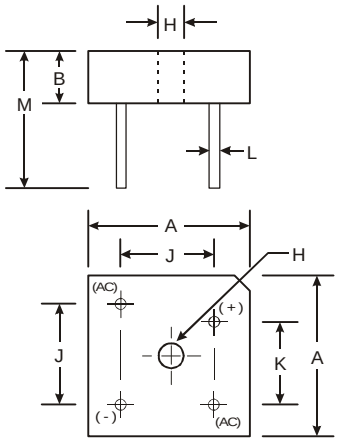

| GBJ | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 29.70 | 30.30 |
| **B** | 19.70 | 20.30 |
| **C** | 17.00 | 18.00 |
| **D** | 3.80 | 4.20 |
| **E** | 7.30 | 7.70 |
| **G** | 9.80 | 10.20 |
| **H** | 2.00 | 2.40 |
| **I** | 0.90 | 1.10 |
| **J** | 2.30 | 2.70 |
| **K** | 3.0 X 45° | |
| **L** | 4.40 | 4.80 |
| **M** | 3.40 | 3.80 |
| **N** | 3.10 | 3.40 |
| **P** | 2.50 | 2.90 |
| **R** | 0.60 | 0.80 |
| **S** | 10.80 | 11.20 |
| **All Dimensions in mm** | | |

**GBPC**



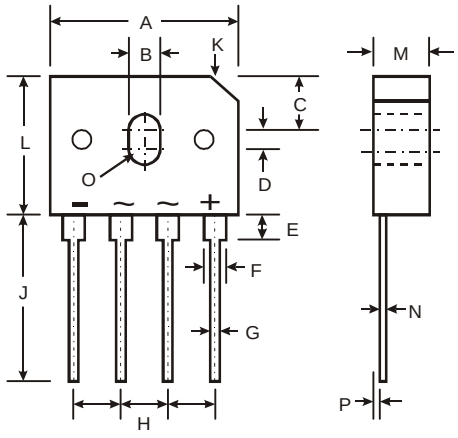

| GBPC | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 28.30 | 28.80 |
| **B** | 7.40 | 8.00 |
| **C** | 16.10 | 17.10 |
| **E** | 18.80 | 21.30 |
| **G** | 13.80 | 14.80 |
| **H** | Hole for #10 screw | |
| | 5.08∅ | 5.59∅ |
| **J** | 17.60 | 18.60 |
| **F** | 6.30 | 6.50 |
| **All Dimensions in mm** | | |

**GBPC-W**




| GBPC-W | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 28.30 | 28.80 |
| **B** | 7.40 | 8.00 |
| **H** | Hole for #10 screw | |
| | 5.08∅ | 5.59∅ |
| **J** | 17.60 | 18.60 |
| **K** | 10.90 | 11.90 |
| **L** | 0.97∅ | 1.07∅ |
| **M** | 31.80 | - |
| **All Dimensions in mm** | | |

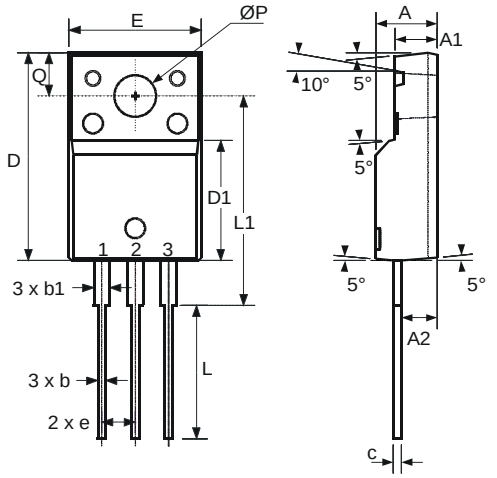
**GBU**




| GBU | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 21.8 | 22.3 |
| **B** | 3.5 | 4.1 |
| **C** | 7.4 | 7.9 |
| **D** | 1.65 | 2.16 |
| **E** | 2.25 | 2.75 |
| **F** | 1.95 | 2.35 |
| **G** | 1.02 | 1.27 |
| **H** | 4.83 | 5.33 |
| **J** | 17.5 | 18.0 |
| **K** | 3.2 X 45° | |
| **L** | 18.3 | 18.8 |
| **M** | 3.30 | 3.56 |
| **N** | 0.46 | 0.56 |
| **O** | 1.90R | |
| **P** | 0.76 | 1.0 |
| **All Dimensions in mm** | | |

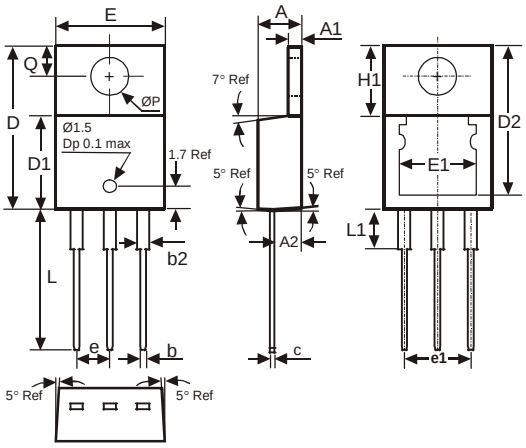

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## ITO-220AB



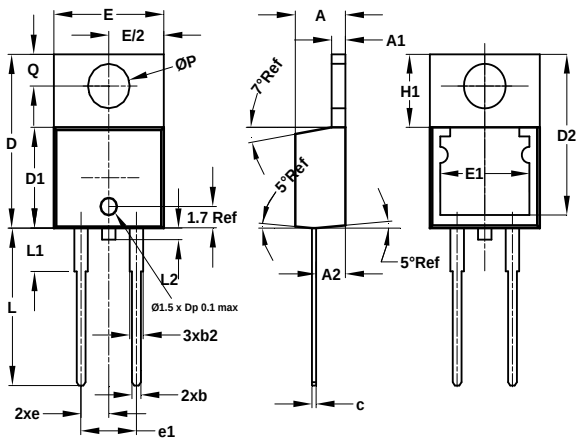

| ITO-220AB | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | 4.50 | 4.70 | 4.90 |
| **A1** | 3.04 | 3.24 | 3.44 |
| **A2** | 2.56 | 2.76 | 2.96 |
| **b** | 0.50 | 0.60 | 0.75 |
| **b1** | 1.10 | 1.20 | 1.35 |
| **c** | 0.50 | 0.60 | 0.70 |
| **D** | 15.67 | 15.87 | 16.07 |
| **D1** | 8.99 | 9.19 | 9.39 |
| **e** | | 2.54 | |
| **E** | 9.91 | 10.11 | 10.31 |
| **L** | 9.45 | 9.75 | 10.05 |
| **L1** | 15.80 | 16.00 | 16.20 |
| **P** | 2.98 | 3.18 | 3.38 |
| **Q** | 3.10 | 3.30 | 3.50 |
| **All Dimensions in mm** | | | |

## ITO-220S




| ITO-220S | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | 4.52 | 4.62 | 4.57 |
| **A1** | 1.17 | 1.39 | - |
| **A2** | 2.57 | 2.77 | 2.67 |
| **b** | 0.72 | 0.95 | 0.84 |
| **b2** | 1.15 | 1.34 | 1.26 |
| **c** | 0.356 | 0.61 | - |
| **D** | 14.22 | 16.51 | 15.00 |
| **D1** | 8.60 | 8.80 | 8.70 |
| **D2** | 13.68 | 14.08 | - |
| **e** | 2.49 | 2.59 | 2.54 |
| **e1** | 4.98 | 5.18 | 5.08 |
| **E** | 10.01 | 10.21 | 10.11 |
| **E1** | 6.86 | 8.89 | - |
| **H1** | 5.85 | 6.85 | - |
| **L** | 13.30 | 13.90 | 13.60 |
| **L1** | - | 4.00 | - |
| **P** | 3.54 | 4.08 | - |
| **Q** | 2.54 | 3.42 | - |
| **All Dimensions in mm** | | | |

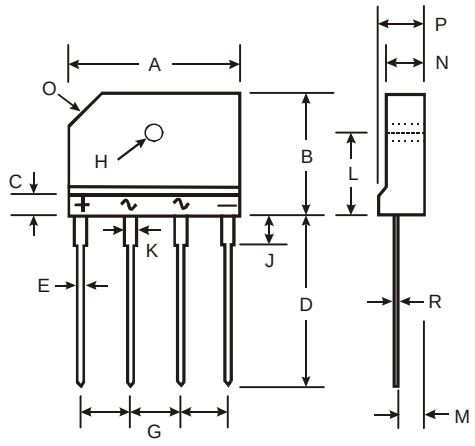
## ITO220AC-S




| ITO220AC-S | | | |
|---|---|---|---|
| **Dim** | **Min** | **Max** | **Typ** |
| **A** | 4.52 | 4.62 | 4.57 |
| **A1** | 0.51 | 1.39 | -- |
| **A2** | 2.57 | 2.77 | 2.67 |
| **b** | 0.72 | 0.95 | 0.84 |
| **b2** | 1.15 | 1.34 | 1.26 |
| **c** | 0.356 | 0.61 | -- |
| **D** | 14.22 | 16.51 | 15.00 |
| **D1** | 8.60 | 8.80 | 8.70 |
| **D2** | 13.68 | 14.08 | -- |
| **e** | 2.49 | 2.59 | 2.54 |
| **e1** | 4.98 | 5.18 | 5.08 |
| **E** | 10.01 | 10.21 | 10.11 |
| **E1** | 6.86 | 8.89 | -- |
| **H1** | 5.85 | 6.85 | -- |
| **L** | 13.30 | 13.90 | 13.60 |
| **L1** | -- | 4.00 | -- |
| **L2** | 0.70 | 1.30 | 1.00 |
| **P** | 3.54 | 4.08 | -- |
| **Q** | 2.54 | 3.42 | -- |
| **All Dimensions in mm** | | | |

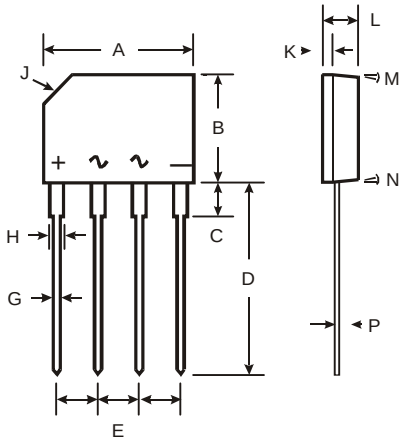

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## KBJ



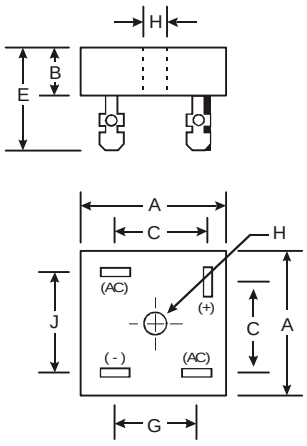

| KBJ | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 24.80 | 25.20 |
| **B** | 14.70 | 15.30 |
| **C** | 3.90 | 4.10 |
| **D** | 17.20 | 17.80 |
| **E** | 0.90 | 1.10 |
| **G** | 7.30 | 7.70 |
| **H** | 3.10∅ | 3.40∅ |
| **J** | 3.30 | 3.70 |
| **K** | 1.50 | 1.90 |
| **L** | 9.30 | 9.70 |
| **M** | 2.50 | 2.90 |
| **N** | 3.40 | 3.80 |
| **O** | 3.0 x 45° | |
| **P** | 4.40 | 4.80 |
| **R** | 0.60 | 0.80 |
| **All Dimensions in mm** | | |

## KBP



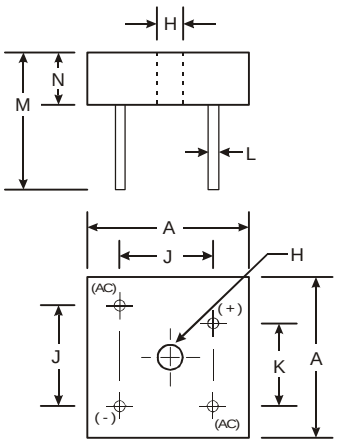

| KBP | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 14.25 | 14.75 |
| **B** | 10.20 | 10.60 |
| **C** | 1.80 | 2.20 |
| **D** | 14.25 | 14.73 |
| **E** | 3.56 | 4.06 |
| **G** | 0.76 | 0.86 |
| **H** | 1.17 | 1.42 |
| **J** | 2.8 X 45° | |
| **K** | 0.80 | 1.10 |
| **L** | 3.35 | 3.65 |
| **M** | 3° Typ | |
| **N** | 2° Typ | |
| **P** | 0.30 | 0.64 |
| **All Dimensions in mm** | | |

## MB




| MB | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 28.40 | 28.70 |
| **B** | 10.97 | 11.23 |
| **C** | 15.50 | 17.60 |
| **E** | 22.86 | 25.40 |
| **G** | 13.30 | 15.30 |
| **H** | Hole for #10 screw | |
| | 4.85∅ | 5.59∅ |
| **J** | 17.10 | 19.10 |
| **K** | 10.40 | 12.40 |
| **L** | 0.97∅ Typ | 1.07∅ |
| **M** | 30.50 | - |
| **N** | 10.97 | 11.23 |
| **All Dimensions in mm** | | |

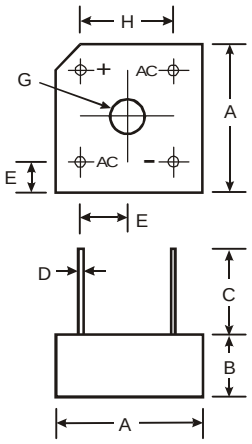
## MB-W




| MB-W | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 28.40 | 28.70 |
| **B** | 10.97 | 11.23 |
| **C** | 15.50 | 17.60 |
| **E** | 22.86 | 25.40 |
| **G** | 13.30 | 15.30 |
| **H** | Hole for #10 screw | |
| | 4.85∅ | 5.59∅ |
| **J** | 17.10 | 19.10 |
| **K** | 10.40 | 12.40 |
| **L** | 0.97∅ Typ | 1.07∅ |
| **M** | 30.50 | - |
| **N** | 10.97 | 11.23 |
| **All Dimensions in mm** | | |

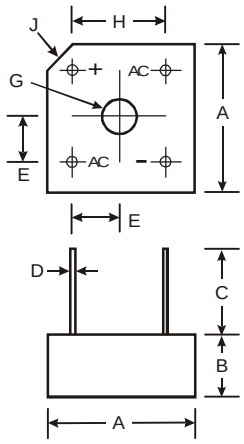

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**PBPC-3 / PBPC-6**



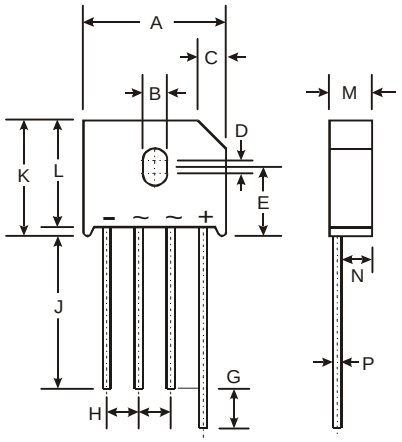

| PBPC-3 / PBPC-6 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 14.73 | 15.75 |
| **B** | 5.84 | 6.86 |
| **C** | 19.00 | - |
| **D** | 0.76∅ Typ | |
| **E** | 1.70 | 3.20 |
| **G** | Hole for #6 screw | |
| | 3.60∅ | 4.00∅ |
| **H** | 10.30 | 11.30 |
| **All Dimensions in mm** | | |

**PBPC-8**



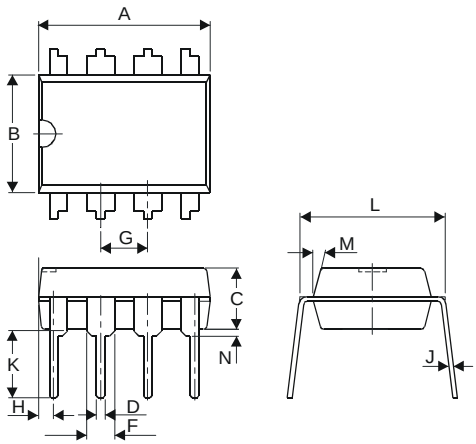

| PBPC-8 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 18.54 | 19.56 |
| **B** | 6.35 | 7.60 |
| **C** | 22.20 | - |
| **D** | 1.27∅ Typ | |
| **E** | 5.33 | 7.37 |
| **G** | 3.60∅ | 4.00∅ |
| **H** | 12.70 Typ | |
| **J** | 2.38 X 45° Typ | |
| **All Dimensions in mm** | | |

**PBU**




| PBU | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 22.70 | 23.70 |
| **B** | 3.80 | 4.10 |
| **C** | 4.20 | 4.70 |
| **D** | 1.70 | 2.20 |
| **E** | 10.30 | 11.30 |
| **G** | 4.50 | 6.80 |
| **H** | 4.80 | 5.80 |
| **J** | 25.40 | - |
| **K** | - | 19.30 |
| **L** | 16.80 | 17.80 |
| **M** | 6.60 | 7.10 |
| **N** | 4.70 | 5.20 |
| **P** | 1.20 | 1.30 |
| **All Dimensions in mm** | | |

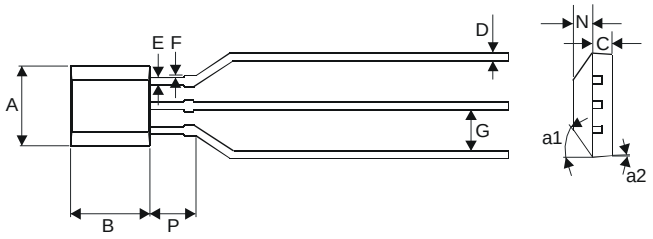
**PDIP-8**




| PDIP-8 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 9.02 | 9.53 |
| **B** | 6.15 | 6.35 |
| **C** | 3.10 | 3.50 |
| **D** | 0.36 | 0.56 |
| **F** | 1.40 | 1.65 |
| **G** | 2.54 typ. | |
| **H** | 0.71 | 0.97 |
| **J** | 0.20 | 0.36 |
| **K** | 2.92 | 3.81 |
| **L** | 7.62 | 8.26 |
| **M** | - | 15° |
| **N** | 0.38 (min) | |
| **All Dimensions in mm** | | |

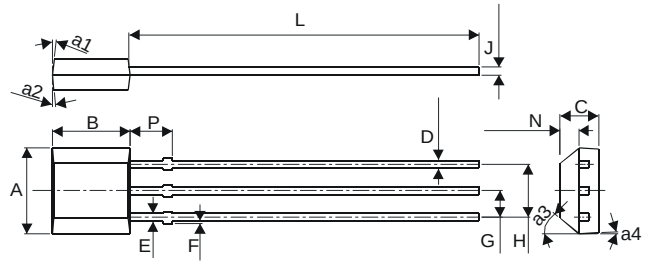

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**SIP-3 for Ammo Pack only**



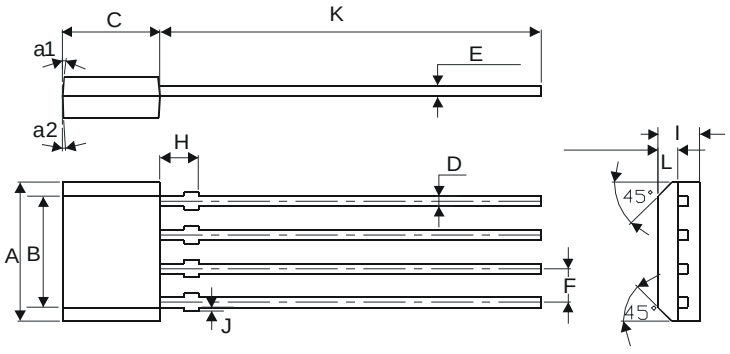

| SIP-3 for Ammo Pack only | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.9 | 4.3 |
| **a1** | 45° Typ | |
| **a2** | 3° Typ | |
| **B** | 2.8 | 3.2 |
| **C** | 1.40 | 1.60 |
| **D** | 0.35 | 0.41 |
| **E** | 0.43 | 0.48 |
| **F** | 0 | 0.2 |
| **G** | 2.4 | 2.9 |
| **N** | 0.63 | 0.84 |
| **P** | 1.55 | - |
| **All Dimensions in mm** | | |

**SIP-3 for Bulk Pack**




| SIP-3 for Bulk Pack | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.9 | 4.3 |
| **a1** | 5° Typ | |
| **a2** | 5° Typ | |
| **a3** | 45° Typ | |
| **a4** | 3° Typ | |
| **B** | 2.8 | 3.2 |
| **C** | 1.40 | 1.60 |
| **D** | 0.33 | 0.432 |
| **E** | 0.40 | 0.508 |
| **F** | 0 | 0.2 |
| **G** | 1.24 | 1.30 |
| **H** | 2.51 | 2.57 |
| **J** | 0.35 | 0.43 |
| **L** | 14.0 | 15.0 |
| **N** | 0.63 | 0.84 |
| **P** | 1.55 | - |
| **All Dimensions in mm** | | |

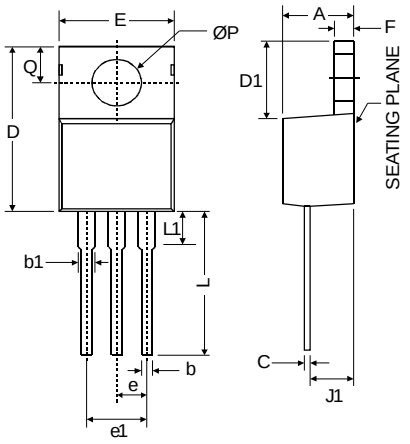
**SIP-4**




| SIP-4 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 5.12 | 5.32 |
| **B** | 4.10 | 4.30 |
| **C** | 3.55 | 3.75 |
| **D** | 0.38 | 0.44 |
| **E** | 0.35 | 0.41 |
| **F** | 1.24 | 1.30 |
| **H** | 1.32 | 1.52 |
| **I** | 1.45 | 1.65 |
| **J** | 0.00 | 0.2 |
| **K** | 13.00 | 15.5 |
| **L** | 0.63 | 0.83 |
| **a1** | 3° | 5° |
| **a2** | 4° | 7° |
| **All Dimensions in mm** | | |

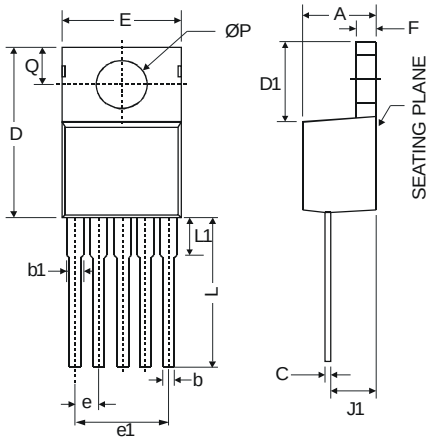

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**TO220-3**



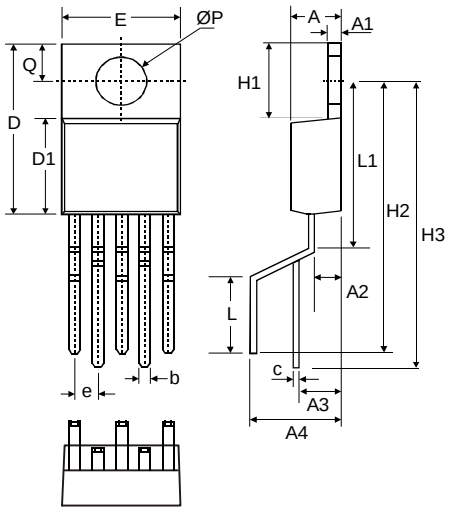

| TO220-3 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.55 | 4.85 |
| **b** | 0.51 | 1.14 |
| **b1** | 1.14 | 1.78 |
| **C** | 0.31 | 1.14 |
| **D** | 14.20 | 16.50 |
| **D1** | 5.84 | 6.86 |
| **E** | 9.70 | 10.70 |
| **e** | 2.79 | 2.99 |
| **e1** | 4.83 | 5.33 |
| **F** | 0.51 | 1.40 |
| **J1** | 2.03 | 2.92 |
| **L** | 12.72 | 14.72 |
| **L1** | 3.66 | 6.35 |
| **P** | 3.53 | 4.09 |
| **Q** | 2.54 | 3.43 |
| **All Dimensions in mm** | | |

**TO220-5**




| TO220-5 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.55 | 4.85 |
| **b** | 0.51 | 1.14 |
| **b1** | 1.14 | 1.78 |
| **C** | 0.31 | 1.14 |
| **D** | 14.20 | 16.50 |
| **D1** | 5.84 | 6.86 |
| **E** | 9.78 | 10.54 |
| **e** | 1.6 | 1.8 |
| **e1** | 6.6 | 7.0 |
| **F** | 0.51 | 1.40 |
| **J1** | 2.03 | 2.92 |
| **L** | 12.72 | 14.72 |
| **L1** | 3.66 | 6.35 |
| **P** | 3.53 | 4.09 |
| **Q** | 2.54 | 3.43 |
| **All Dimensions in mm** | | |

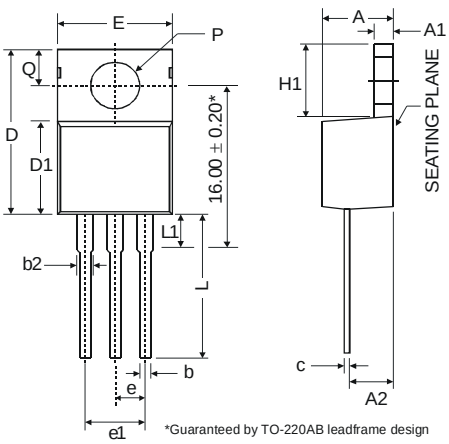
**TO220-5(R)**




| TO220-5(R) | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | 4.37 | 4.57 | 4.77 |
| **A1** | 1.12 | 1.27 | 1.40 |
| **A2** | 2.45 | 2.65 | 2.85 |
| **A3** | 4.10 | 4.40 | 4.70 |
| **A4** | 7.95 | 8.25 | 8.55 |
| **b** | 0.64 | 0.79 | 0.94 |
| **c** | 0.35 | 0.38 | 0.55 |
| **D** | 14.80 | 15.00 | 15.20 |
| **D1** | 8.50 | 8.70 | 8.90 |
| **e** | - | 1.70 | - |
| **E** | 9.96 | 10.16 | 10.36 |
| **H1** | 6.10 | 6.30 | 6.50 |
| **H2** | 21.32 | 22.12 | 22.92 |
| **H3** | 24.15 | 24.95 | 25.75 |
| **L** | - | 6.30 | - |
| **L1** | 13.10 | 13.50 | 13.90 |
| **P** | 3.64 | 3.84 | 4.04 |
| **Q** | 2.55 | 2.75 | 2.95 |
| **All Dimensions in mm** | | | |

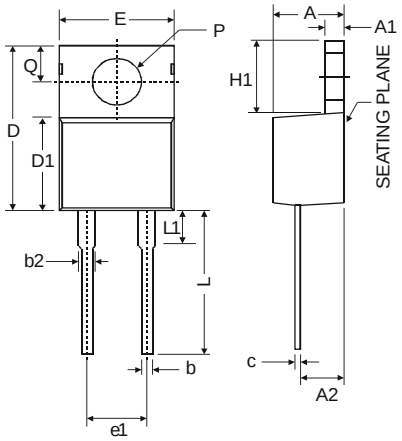

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## TO220AB



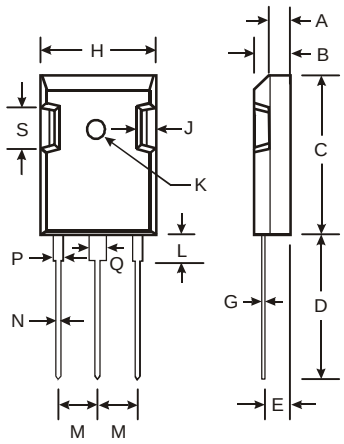

| TO220AB | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | 3.56 | - | 4.82 |
| **A1** | 0.51 | - | 1.39 |
| **A2** | 2.04 | - | 2.92 |
| **b** | 0.39 | 0.81 | 1.01 |
| **b2** | 1.15 | 1.24 | 1.77 |
| **c** | 0.356 | - | 0.61 |
| **D** | 14.22 | - | 16.51 |
| **D1** | 8.39 | - | 9.01 |
| **e** | 2.54 | | |
| **e1** | 5.08 | | |
| **E** | 9.66 | - | 10.66 |
| **H1** | 5.85 | - | 6.85 |
| **L** | 12.70 | - | 14.73 |
| **L1** | - | - | 6.35 |
| **P** | 3.54 | - | 4.08 |
| **Q** | 2.54 | - | 3.42 |
| **All Dimensions in mm** | | | |

## TO220AC




| TO220AC | | | |
|---|---|---|---|
| **Dim** | **Min** | **Typ** | **Max** |
| **A** | 3.56 | - | 4.82 |
| **A1** | 0.51 | - | 1.39 |
| **A2** | 2.04 | - | 2.92 |
| **b** | 0.39 | 0.81 | 1.01 |
| **b2** | 1.15 | 1.24 | 1.77 |
| **c** | 0.356 | - | 0.61 |
| **D** | 14.22 | - | 16.51 |
| **D1** | 8.39 | - | 9.01 |
| **e1** | 5.08 | | |
| **E** | 9.66 | - | 10.66 |
| **H1** | 5.85 | - | 6.85 |
| **L** | 12.70 | - | 14.73 |
| **L1** | - | - | 6.35 |
| **P** | 3.54 | - | 4.08 |
| **Q** | 2.54 | - | 3.42 |
| **All Dimensions in mm** | | | |

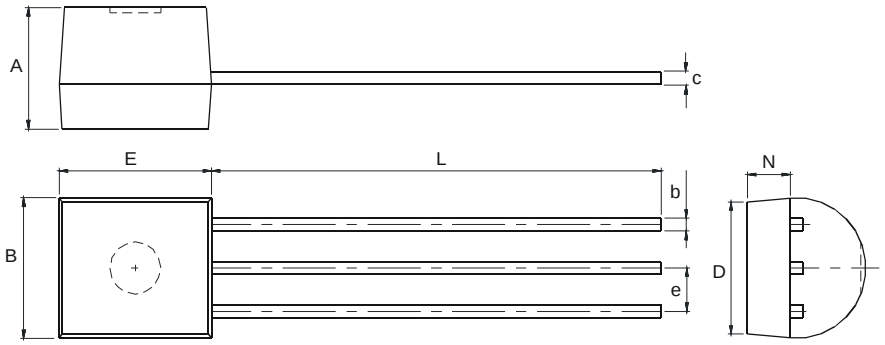
## TO3P / TO247




| TO3P / TO247 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 1.9 | 2.1 |
| **B** | 4.85 | 5.15 |
| **C** | 20.3 | 21.75 |
| **D** | 19.60 | 20.1 |
| **E** | 2.2 | 2.6 |
| **G** | 0.51 | 0.76 |
| **H** | 15.45 | 16.25 |
| **J** | 1.93 | 2.18 |
| **K** | 2.9∅ | 3.2∅ |
| **L** | 3.78 | 4.38 |
| **M** | 5.2 | 5.7 |
| **N** | 1.0 | 1.4 |
| **P** | 1.8 | 2.2 |
| **Q** | 2.8 | 3.2 |
| **S** | 4.4 Typ | |
| **All Dimensions in mm** | | |

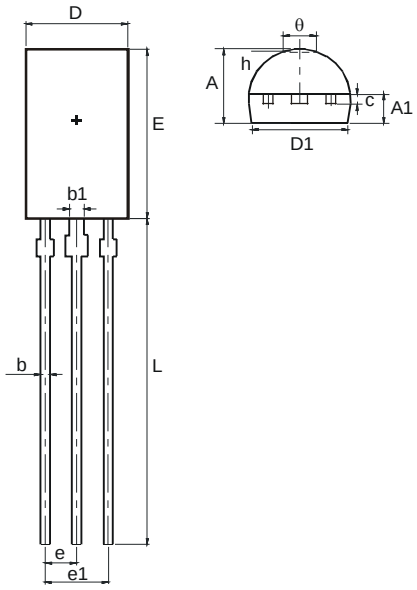

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## TO92



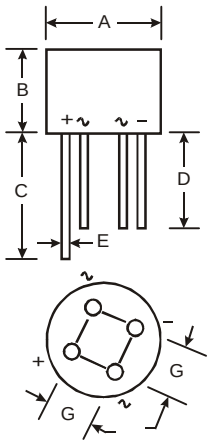

| TO92 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.45 | 3.66 |
| **B** | 4.27 | 4.78 |
| **b** | 0.38 Typ | |
| **c** | 0.38 Typ | |
| **D** | 3.87 Typ | |
| **E** | 4.32 | 4.83 |
| **e** | 1.27 Typ | |
| **L** | 12.98 | 14.0 |
| **N** | 1.22 | 1.37 |
| **All Dimensions in mm** | | |

## TO92L




| TO92L | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 3.70 | 4.10 |
| **A1** | 1.28 | 1.58 |
| **b** | 0.35 | 0.55 |
| **b1** | 0.60 | 0.80 |
| **c** | 0.35 | 0.45 |
| **D** | 4.70 | 5.10 |
| **D1** | 4.00 | - |
| **e** | 1.270 Typ | |
| **e1** | 2.44 | 2.64 |
| **E** | 7.80 | 8.20 |
| **L** | 13.80 | 14.20 |
| **h** | 0.00 | 0.30 |
| **θ** | - | 1.60 |
| **All Dimensions in mm** | | |

## WOG




| WOG | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 8.84 | 9.86 |
| **B** | 4.00 | 4.60 |
| **C** | 27.90 | - |
| **D** | 25.40 | - |
| **E** | 0.71 | 0.81 |
| **G** | 4.60 | 5.60 |
| **All Dimensions in mm** | | |


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