# E30A2CDS, E30A2CDR

**STACK SILICON DIFFUSED DIODE**

ALTERNATOR DIODE FOR AUTOMOTIVE APPLICATION.

FEATURES

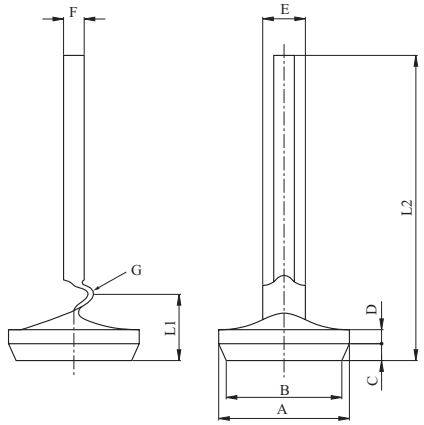
· Average Forward Current : $I_O$=30A.

· Reverse Voltage : 200V(Min)

POLARITY

E30A2CDS E30A2CDR

(+ Type) (- Type)




| DIM | MILLIMETERS | DIM | MILLIMETERS |
|---|---|---|---|
| A | 9.5±0.2 | E | 3.1±0.1 |
| B | 8.4±0.2 | F | Φ1.5 |
| C | 1.2 | G | R0.5 |
| D | 1 | L1 | 5±0.4 |

| DIM | TYPE | POLARITY | MILLIMETERS |
|---|---|---|---|
| L2 | S | ▼ | 19.0±1.0 |
| | R | ▲ | 23.0±1.0 |

PD

MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 200 | V |
| Average Forward Current | $I_{F(AV)}$ | 30 | A |
| Peak 1 Cycle Surge Current | $I_{FSM}$ | 300 (10ms Condition) | A |
| Junction Temperature | $T_j$ | -40 ~ 200 | ℃ |
| Storage Temperature Range | $T_{stg}$ | -40 ~ 200 | ℃ |

ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Peak Forward Voltage | $V_{FM}$ | $I_{FM}$=100A | - | - | 1.20 | V |
| Reverse Voltage | $V_{RM}$ | $I_R$=5mA | 200 | - | - | V |
| Repetitive Peak Reverse Current | $I_{RRM}$ | $V_R$=200V | - | - | 50 | μA |
| Reverse Recovery Time | $t_{rr}$ | $I_F$=-$I_R$ 100mA | - | - | 15 | μS |
| Reverse Leakage Current Under High Temperature | $HI_R$ | Ta=150℃, $V_R$=$V_{RM}$ | - | - | 2.5 | mA |
| Temperature Resistance | $R_{th}$ | Junction to case | - | 1.0 | - | ℃/W |