

TECHNICAL DATA
DATA SHEET 5078, REV. A

Ultrafast Recovery Rectifier

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Operating and Storage Temperature: -65°C to +175°

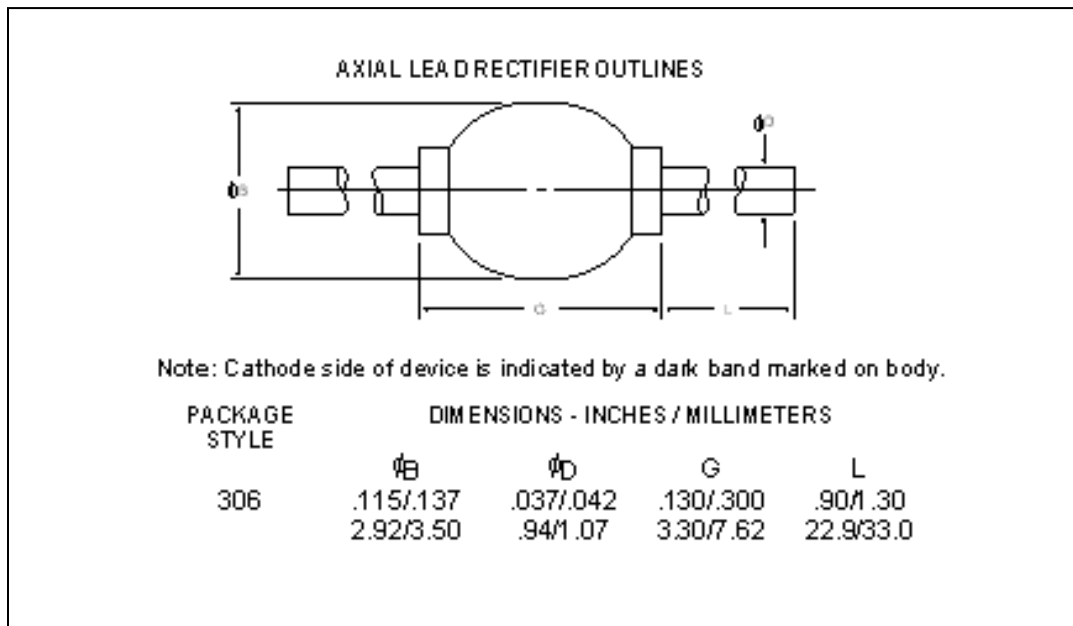
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

Rating	Symbol	Condition	Max	Units
WORKING PEAK REVERSE VOLTAGE 1N6626, U, US 1N6627, U, US 1N6628, U, US 1N6629, U, US 1N6630, U, US 1N6631, U, US	V_{RWM}		200 400 600 800 900 1000	Volts
AVERAGE RECTIFIED FORWARD CURRENT 1N6626 thru 1N6628 1N6629 thru 1N6631	I_o	$T_L = 75^\circ\text{C}$	2.3 1.8	Amps
AVERAGE RECTIFIED FORWARD CURRENT 1N6626U, US thru 1N6628U, US 1N6629U, US thru 1N6631U, US	I_o	$T_{EC} = 110^\circ\text{C}$	4.0 2.8	Amps
PEAK FORWARD SURGE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	I_{FSM}	$T_p = 8.3\text{ms}$	75 60	A(pk)
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	$I_R @ V_{RWM}$	$T_j = 25^\circ\text{C}$	2.0 4.0	μAmps
MAXIMUM REVERSE CURRENT 1N6626, U, US thru 1N6630, U, US 1N6631, U, US	$I_R @ V_{RWM}$	$T_j = 150^\circ\text{C}$	500 600	μAmps
MAX. PEAK FORWARD VOLTAGE (PULSED) 1N6626, U, US thru 1N6629, U, US 1N6630, U, US 1N6631, U, US	V_{FM}	$I_F = 4\text{A}$ $I_F = 3\text{A}$ $I_F = 2\text{A}$	1.50 1.70 1.95	Volts
PEAK RECOVERY CURRENT 1N6626, U, US thru 1N6629, U, US 1N6630, U, US 1N6631, U, US	I_{RM}	$I_F = 2\text{A}$, 100A/ μ	3.5 4.2 5.0	A(pk)
MAXIMUM REVERSE RECOVERY TIME 1N6626, U, US thru 1N6629, U, US 1N6630, U, US 1N6631, U, US	T_{rr}	$I_F = 0.5\text{A}$ $I_{RM} = 1.0\text{A}$	30 50 60	ns
FORWARD RECOVERY VOLTAGE 1N6626, U, US thru 1N6629, U, US 1N6630, U, US 1N6631, U, US	V_{FRM}	$I_F = 1\text{A}$ $t_r = 12\text{ns}$	8 12 20	Volts
THERMAL RESISTANCE (Axial) 1N6626 thru 1N6631	$R_{\theta_{JL}}$	$L = .375$	22	$^\circ\text{C/W}$
THERMAL RESISTANCE (MELF) 1N6626U, US thru 1N6631U, US	$R_{\theta_{JC}}$	$L = 0$	6.5	$^\circ\text{C/W}$

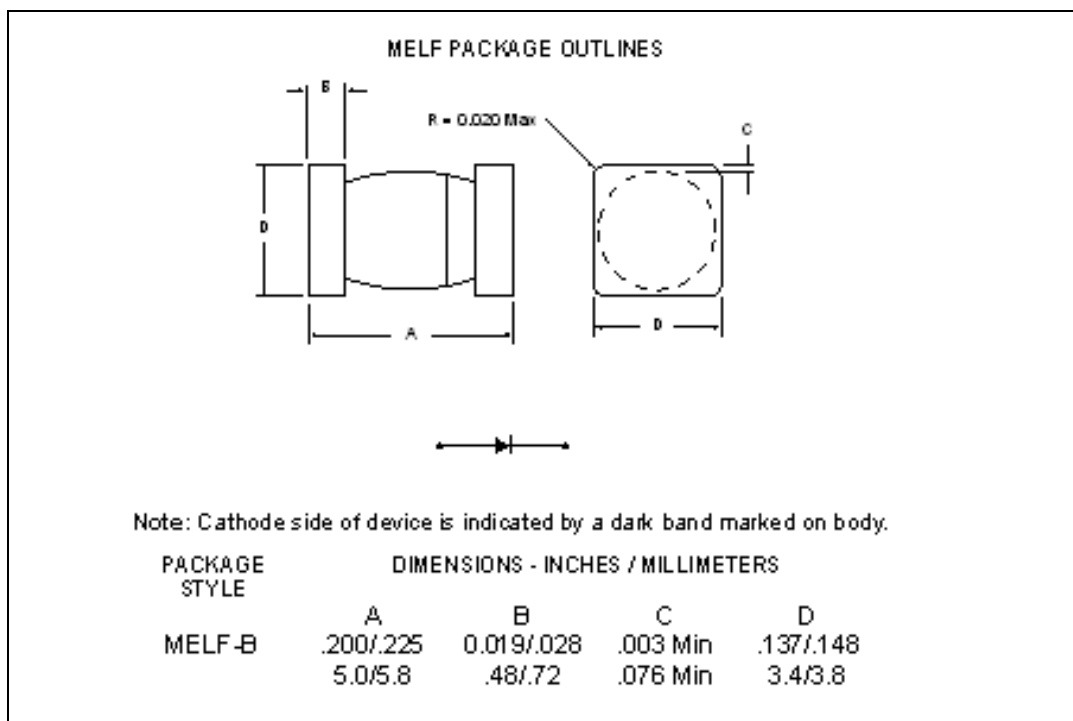
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MECHANICAL DIMENSIONS In Inches / (mm)

AXIAL



MELF



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