

TECHNICAL DATA
DATA SHEET 5089, REV. A



Ultrafast Recovery Rectifier

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

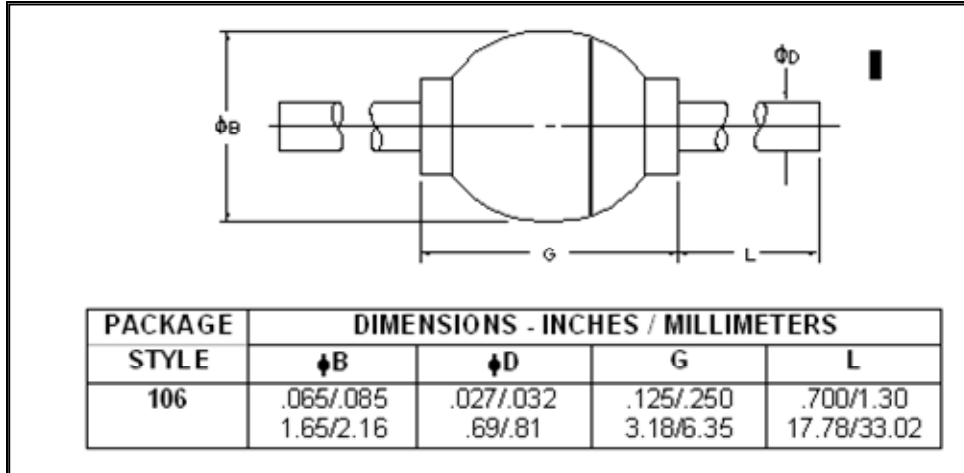
MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at T_A = 25°C unless otherwise specified.

Rating	Symbol	Condition	Max	Units
WORKING PEAK REVERSE VOLTAGE 1N6620, U, US 1N6621, U, US 1N6622, U, US 1N6623, U, US 1N6624, U, US 1N6625, U, US	V _{RWM}		200 400 600 800 900 1000	Volts
AVERAGE RECTIFIED FORWARD CURRENT 1N6620, U, US thru 1N6622, U, US 1N6623, U, US thru 1N6625, U, US	I _o		1.2 1.0	Amps
PEAK FORWARD SURGE CURRENT 1N6620, U, US thru 1N6624, U, US 1N6625, U, US	I _{FSM}	T _p =8.3ms	20 15	A(pk)
MAXIMUM REVERSE CURRENT 1N6620, U, US thru 1N6624, U, US 1N6625, U, US	I _R @ V _{RWM}	T _j = 25 °C	0.5 1.0	μAmps
MAXIMUM REVERSE CURRENT 1N6620, U, US thru 1N6624, U, US 1N6625, U, US	I _R @ V _{RWM}	T _j = 150 °C	150 200	μAmps
MAX. PEAK FORWARD VOLTAGE (PULSED) 1N6620, U, US thru 1N6622, U, US 1N6623, U, US & 1N6624, U, US 1N6625, U, US	V _{FM}	I _F =2.0A I _F =1.5μA I _F =1.5μA	1.60 1.80 1.95	Volts
PEAK RECOVERY CURRENT 1N6620, U, US thru 1N6622, U, US 1N6623, U, US & 1N6624, U, US 1N6625, U, US	I _{RM}	I _F =2A, 100A/μ	3.5 4.2 5.0	A(pk)
MAXIMUM REVERSE RECOVERY TIME 1N6620, U, US thru 1N6622, U, US 1N6623, U, US & 1N6624, U, US 1N6625, U, US	T _{rr}	I _F =0.5A I _{RM} =1.0A	30 50 60	ns
FORWARD RECOVERY VOLTAGE 1N6620, U, US thru 1N6622, U, US 1N6623, U, US & 1N6624, U, US 1N6625, U, US	V _{FRM}	I _F =0.5A t _r =12ns	12 18 30	Volts
THERMAL RESISTANCE (Axial) 1N6620 thru 1N6625	R _{θJL}	L=.375	38	°C/W
THERMAL RESISTANCE (MELF) 1N6620U,US thru 1N6625U,US	R _{θJC}	L=0	20	°C/W

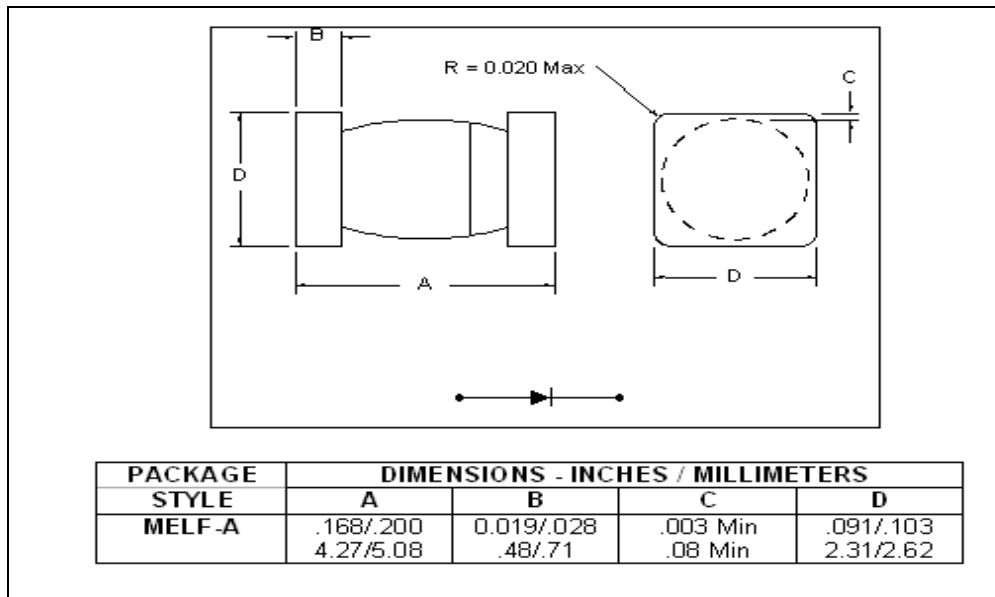
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MECHANICAL DIMENSIONS In Inches / (mm)

AXIAL



MELF



SENSITRON **SEMICONDUCTOR**

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