

TECHNICAL DATA DATA SHEET 5089, REV. A

SJ SX SV

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 $T_A = 25^{\circ}$ 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	Io		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	Trr	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	RθJL	L=.375	38	°C/W
THERMAL RESISTANCE (MELF) 1N6620U,US thru 1N6625U,US	Rθ _{JC}	L=0	20	°C/W

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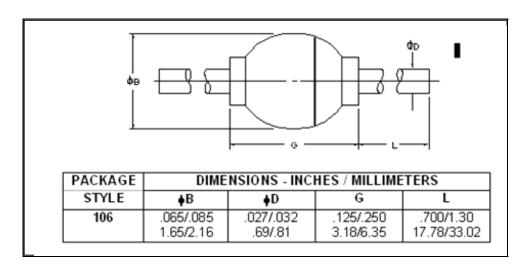
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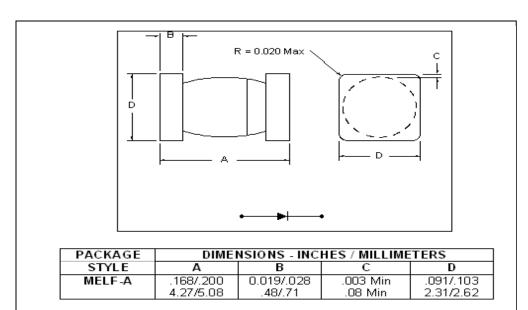
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MECHANICAL DIMENSIONS In Inches / (mm)

AXIAL



MELF



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