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SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 125, REV B

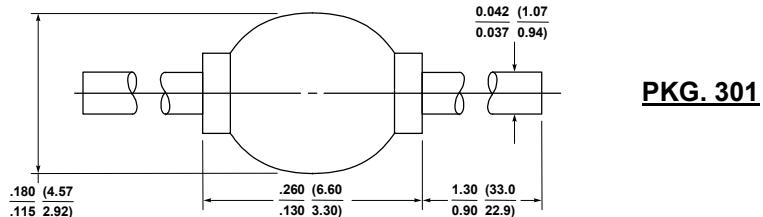
HIGH CURRENT AXIAL LEAD RECTIFIERS

DESCRIPTION: 400 VOLT, 3.0 AMP, 2000 NANOSECOND RECTIFIER

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

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	400	Vdc
Average DC Output Current (I _o)	T _A = +55 °C	-	-	3.0	Amps
Peak Single Cycle Surge Current (I _{fsm})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	80	Amps(pk)
Operating and Storage Temp. (T _{op} & T _{sto})	-	-65	-	+175	°C
Maximum Forward Voltage (V _f)	I _f = 9.0A (300 µsec pulse, duty cycle < 2%)	-	-	1.5	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T _A = 25° C T _A = 100° C	-	-	1.0 20	µAmps
Reverse Recovery Time (t _{rr})	I _f = 0.5A, I _r = 1.0A, I _{rr} = 0.25A	-	-	150	nsec
Thermal Resistance (θ _{JL})	d = 0.375"	-	-	20	° C/W

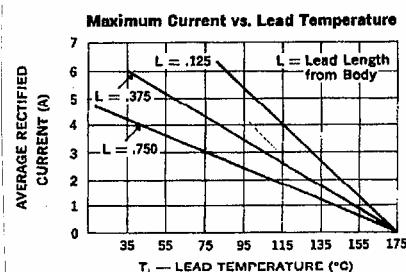
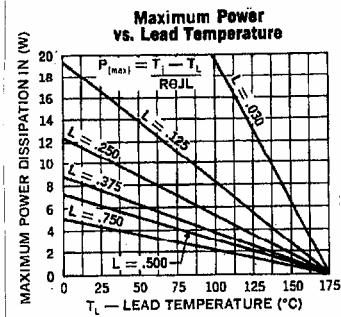
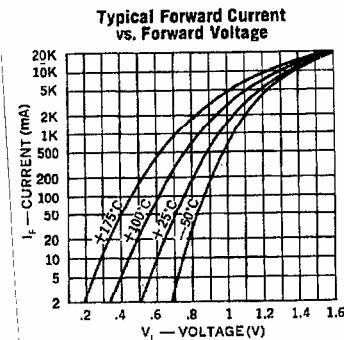
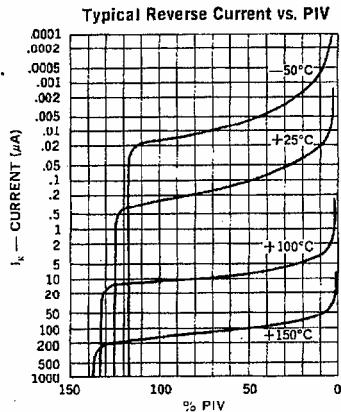
MECHANICAL DIMENSIONS In Inches / (mm), min./max.



Note: The cathode side is marked with a dark colored band on one side of the diode body.

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