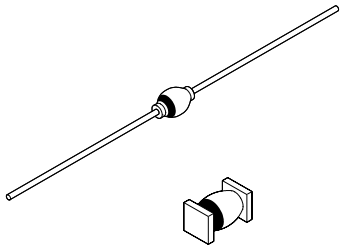
1N5806
1N5806US

SENSITRON
SEMICONDUCTOR

JAN	**SJ**
JANTX	**SX**
JANTXV	**SV**

TECHNICAL DATA
DATA SHEET 158, REV D



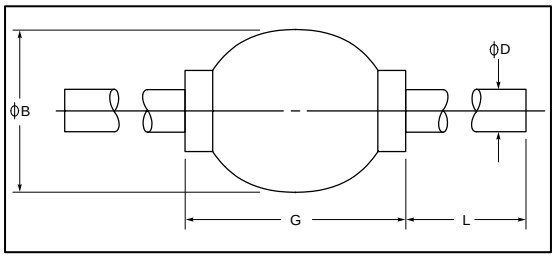
HERMETIC AXIAL / MELF LEAD RECTIFIER

DESCRIPTION: 150 VOLT, 2.5 AMP, 25 NANOSECOND RECTIFIER

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^oC$ unless otherwise specified.

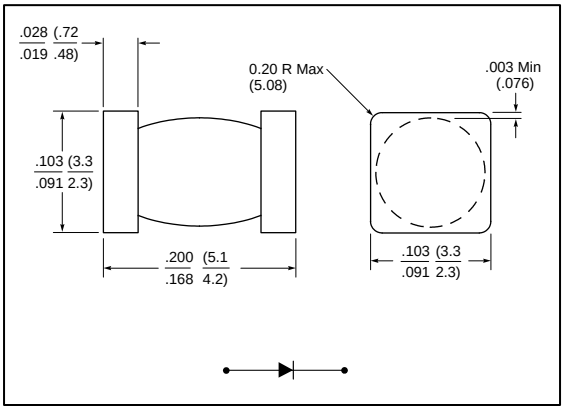
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	150	Vdc
Average DC Output Current (I_o)	$T_L = +75^oC$	-	-	2.5	Amps
Peak Single Cycle Surge Current (I_{fsm})	t_p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	25	Amps(pk)
Operating and Storage Temp. (T_{op} & T_{stg})	-	-65	-	+175	°C
Maximum Forward Voltage (V_f)	I_f = 3.0A (300 μsec pulse, duty cycle < 2%)	-	-	.875	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	$T_A = 25°$ C $T_A = 100°$ C	-	-	1.0 50	μAmps
Reverse Recovery Time (t_{rr})	I_f = 0.5A, I_r = 0.5A, I_{rr} = 50mA	-	-	25	nsec
Thermal Resistance (θ_{JL}) (Axial)	d = 0.375”	-	-	36	° C/W
Thermal Resistance (θ_{JEC}) (MELF)	Junction to End Caps	-	-	20	° C/W

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



PKG. 106

ϕB	ϕ D	G	L
.065 (1.65) .085 (3.56)	.027 (.69) .032 (.81)	.125 (3.18) .250 (6.35)	.700 (17.78) 1.30 (33.02)



MELF-A

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