TECHNICAL DATA DATA SHEET 5132, REV A

SENSITRON

HIGH EFFICIENCY POWER RECTIFIER

DESCRIPTION: 1500 VOLT, 2.0 AMP SUPER FAST RECTIFIER

FEATURES:

- Single Chip Construction
- Hermetically Sealed
- Metallurgically Bonded
- Super Fast Recovery: 100 ns max @ 25°C
- Low Reverse Leakage Current
- For High Efficiency Applications
- TX, TXV and S-Level Screening Available

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

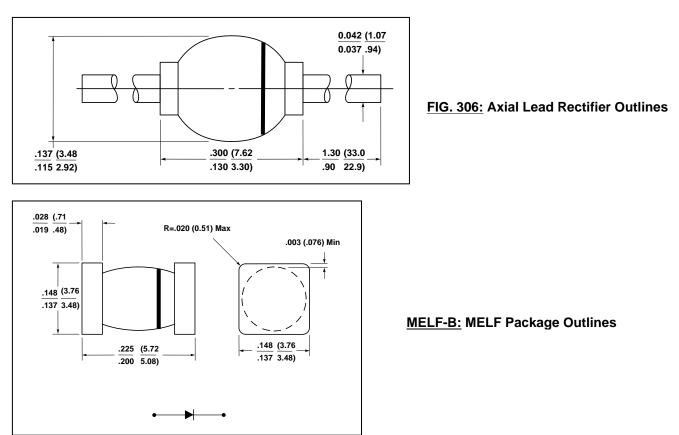
RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-	-	-	1500	Vdc
Average DC Output Current (I ₀)	$T_L = +75^{\circ}C, L = 0$ "	-	-	2.0	Amps
Peak Single Cycle Surge Current (I _{FSM})	t _p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	-	-	20	Amps(pk)
Operating and Storage Temp. (T_{OP} & T_{STG})	-	-65	-	+175	°C
Breakdown Voltage (V _{BR})	I _R = 50 μA	1500			Vdc
Maximum Forward Voltage (V _F)	I _F = 0.75 A	-	-	1.95	
	I _F = 2.0 A	-	-	2.5	Volts
	(300 µsec pulse, duty cycle < 2%)				
Maximum Instantaneous Reverse Current At Rated PIV	T _A = +25°C	-	-	10	μAmps
	T _A = +125°C	-	-	200	
Reverse Recovery Time (t _{rr})	I _F =0.5A, I _R =1.0A, I _{RR} =0.25A				
	$T_A = 25^{\circ}C$	-	-	100	nsec
	T _A = 125°C	-	-	200	
Thermal Resistance ($R_{\Theta JL}$, AXIAL)	Junction to Lead, d = 0.375"	-	-	30	°C/W
$(R_{\ThetaJEC},MELF)$	Junction to End Caps	-	-	10	

• 221 West Industry Court 🗉 Deer Park, NY 11729-4681 🗏 Phone (631) 586 7600 Fax (631) 242 9798 • World Wide Web Site - http://www.sensitron.com
E-Mail Address - sales@sensitron.com

<u>SENSITRON</u> SEMICONDUCTOR

SRS3150HE SRS3150HEU

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

NOTE: Cathode side of device is indicated by dark band marked on body.

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