



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

ssdi@ssdi-power.com * www.ssdi-power.com

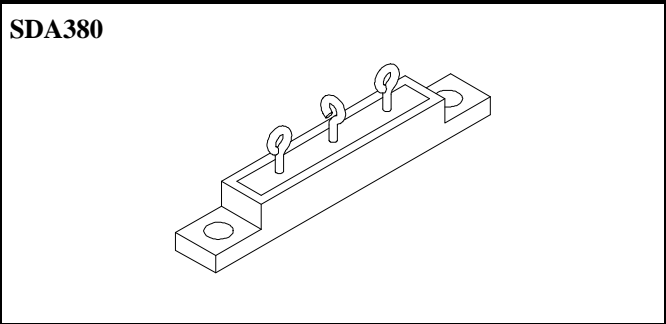
SDA380A THRU SDA380G

10 AMPS, 5μsec STANDARD RECOVERY CENTERTAP RECTIFIER

DESIGNER'S DATA SHEET

Features:

- Standard Recovery
- Unheatsunk Average Output Current: 10 Amps
- Low Reverse Leakage Current
- Low Junction Capacitance
- Glass Passivated Rectifiers
- Hermetically Sealed Discretes
- Aluminum Case for Maximum Thermal Conductivity
- Common Anode and Doubler Versions Available
- TX and TXV Level screening Available



Maximum Ratings		Symbol	Value	Units
Peak Repetitive and Peak Surge Reverse Voltage	SDA380A	V_{RRM} V_{RSM} V_R	50	Volts
	SDA380B		100	
	SDA380C		200	
	SDA380D		400	
	SDA380E		600	
	SDA380F		800	
	SDA380G	1000		
Average Rectified Forward Current ² (Resistive Load, 60 hz Sine Wave, T _A = 25°C, No Heatsink)		I _O	10	Amps
Peak Surge Current ¹ (8.3 ms Pulse, Half Sine Wave, T _A = 25 °C, per leg)		I _{FSM}	75	Amps
Operating & Storage Temperature		Top & Tstg	-55 to +150	°C
Maximum Thermal Resistance Junction to Case		R _{θJC}	5.0	°C/W

^{1/} Both legs tied together

^{2/} Per leg



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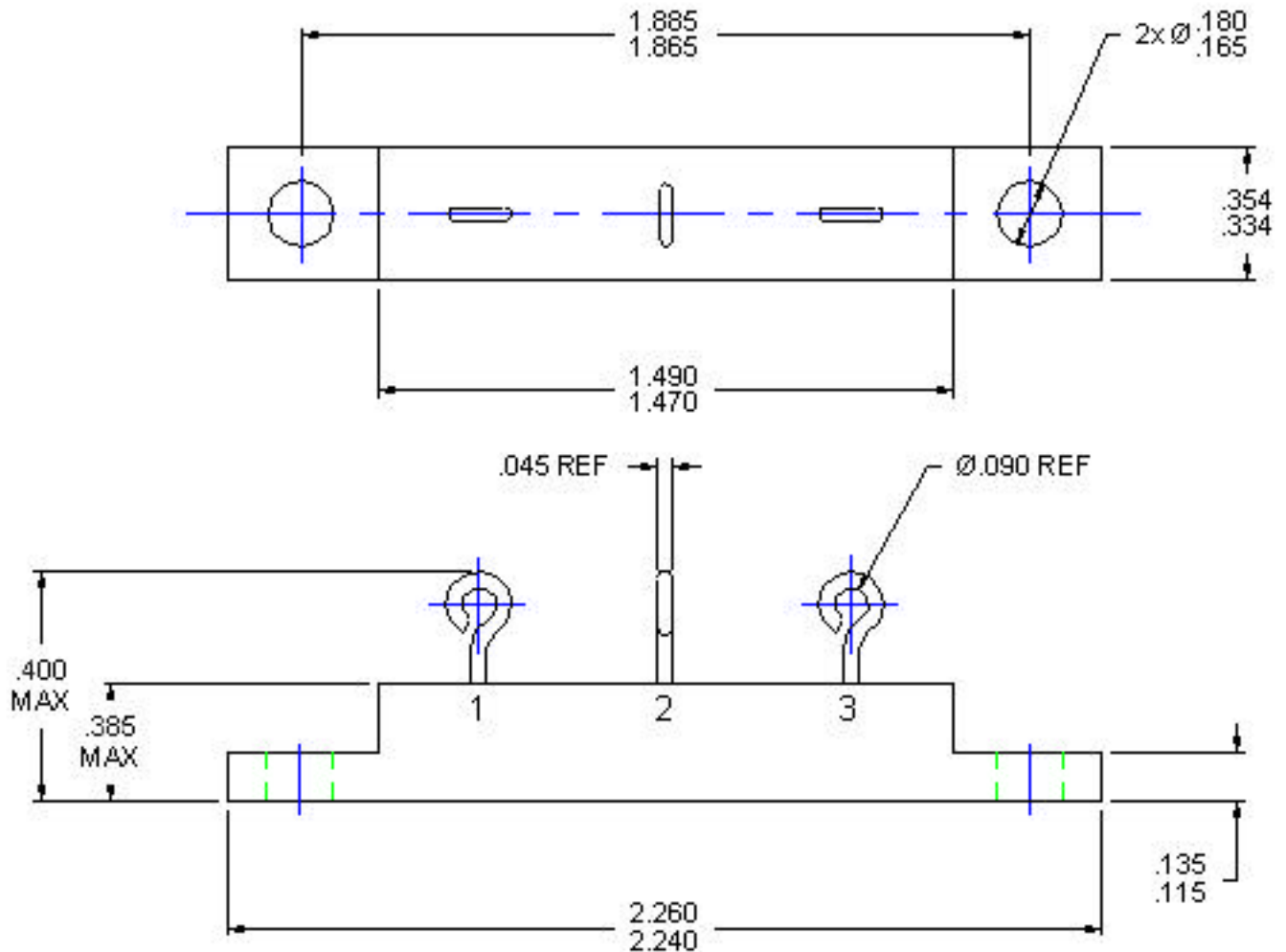
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**SDA380A
thru
SDA380G**

Electrical Characteristics	Symbol	Value	Units
Instantaneous Forward Voltage Drop ($I_F = 5A$, $T_A = 25^\circ C$, 300 - 500 μ sec pulse)	V_{F1}	1.2	V_{DC}
Instantaneous Forward Voltage Drop ^{1/} ($I_F = 5A$, $T_A = 25^\circ c$, 300 - 500 μ sec pulse)	V_{F2}	1.35	V_{DC}
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ C$, 300 μ sec pulse minimum)	I_{R1}	5	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ C$, 300 μ sec pulse minimum)	I_{R2}	0.5	mA
Reverse Recovery Time ($T_A = 25^\circ C$, $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	T_{RR}	5000	nsec

1/ Guaranteed / not tested

Case Outline:



FOR OPERATING CURVES, PLEASE CONTACT THE FACTORY