



Solid State Devices, Inc.

14830 Valley View Blvd * La Mirada, Ca 90638

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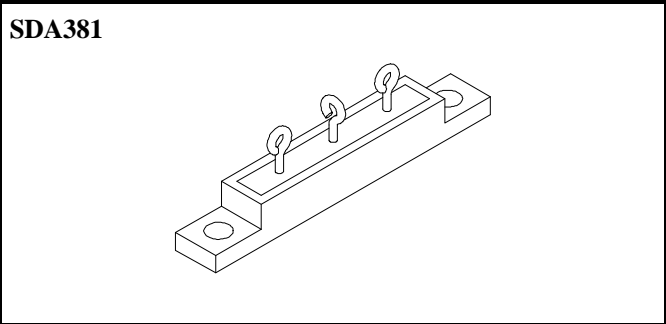
SDA381A THRU SDA381G

10 AMPS, 180 nsec FAST 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	SDA381A	50	Volts
	SDA381B	100	
	SDA381C	200	
	SDA381D	400	
	SDA381E	600	
	SDA381F	800	
	SDA381G	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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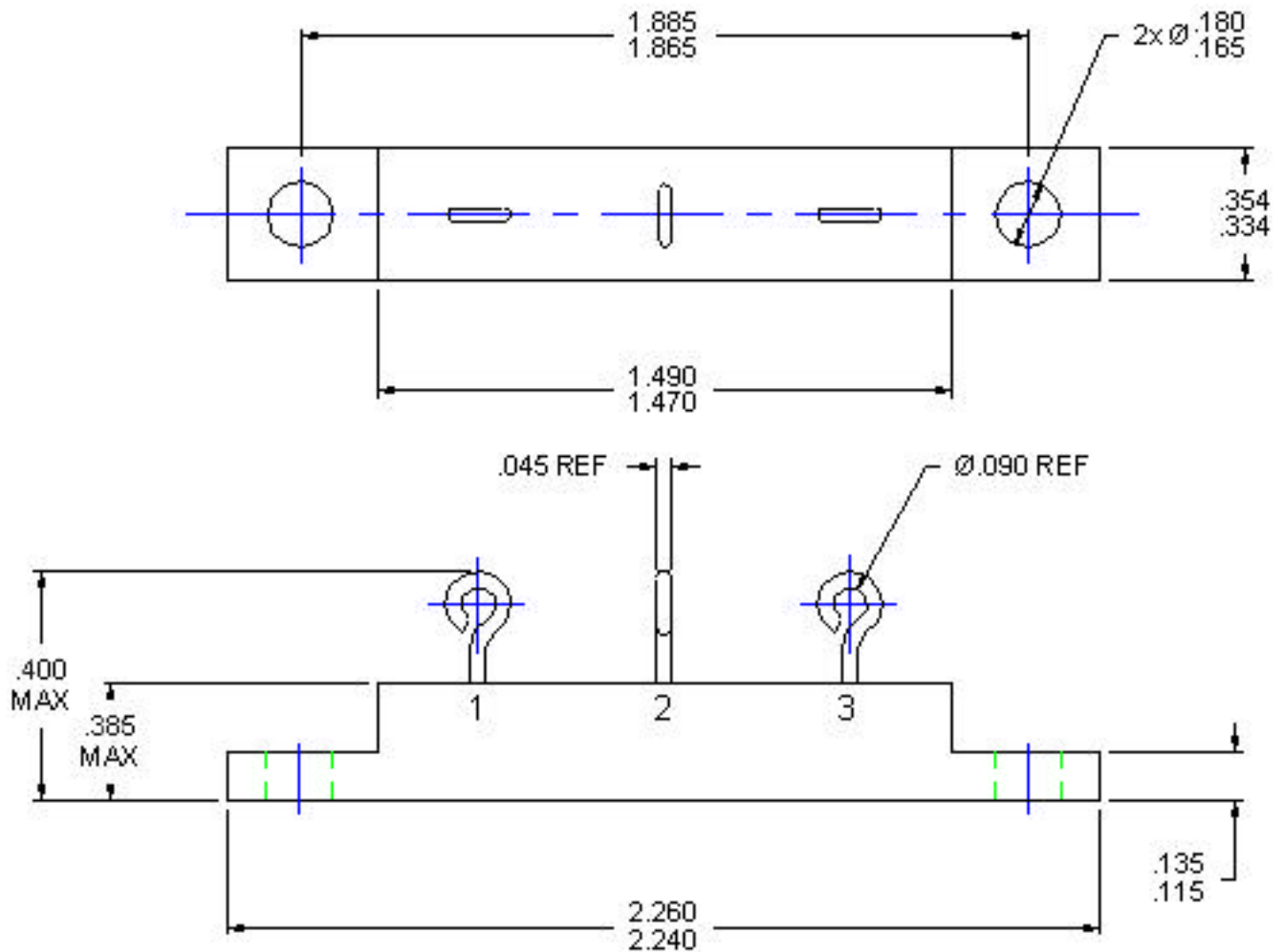
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**SDA381A
thru
SDA381G**

Electrical Characteristics		Symbol	Value	Units
Instantaneous Forward Voltage Drop ($I_F = 3A, T_A = 25^\circ C, 300 - 500 \mu sec$ pulse)	A - D	V_{F1}	1.35	V_{DC}
	E		1.45	
	F - G		1.55	
Instantaneous Forward Voltage Drop ^{1/} ($I_F = 3A, T_A = 25^\circ c, 300 - 500 \mu sec$ pulse)	A - D	V_{F2}	1.5	V_{DC}
	E		1.6	
	F - G		1.7	
Reverse Leakage Current (Rated $V_R, T_A = 25^\circ C, 300 \mu sec$ pulse minimum)		I_{R1}	5	μA
Reverse Leakage Current (Rated $V_R, T_A = 100^\circ C, 300 \mu sec$ 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