

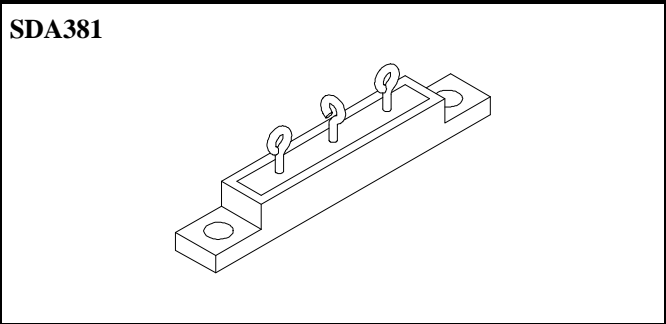
**SDA381A
 THRU
 SDA381G**

**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	V_{RRM} 200	
	SDA381D	V_{RSM} 400	
	SDA381E	V_R 600	
	SDA381F	800	
SDA381G	1000		
Average Rectified Forward Current ² (Resistive Load, 60 hz Sine Wave, $T_A = 25^\circ\text{C}$, No Heatsink)	I_o	10	Amps
Peak Surge Current ¹ (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$, per leg)	I_{FSM}	75	Amps
Operating & Storage Temperature	Top & Tstg	-55 to +150	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	5.0	$^\circ\text{C}/\text{W}$

^{1/} Both legs tied together
^{2/} Per leg



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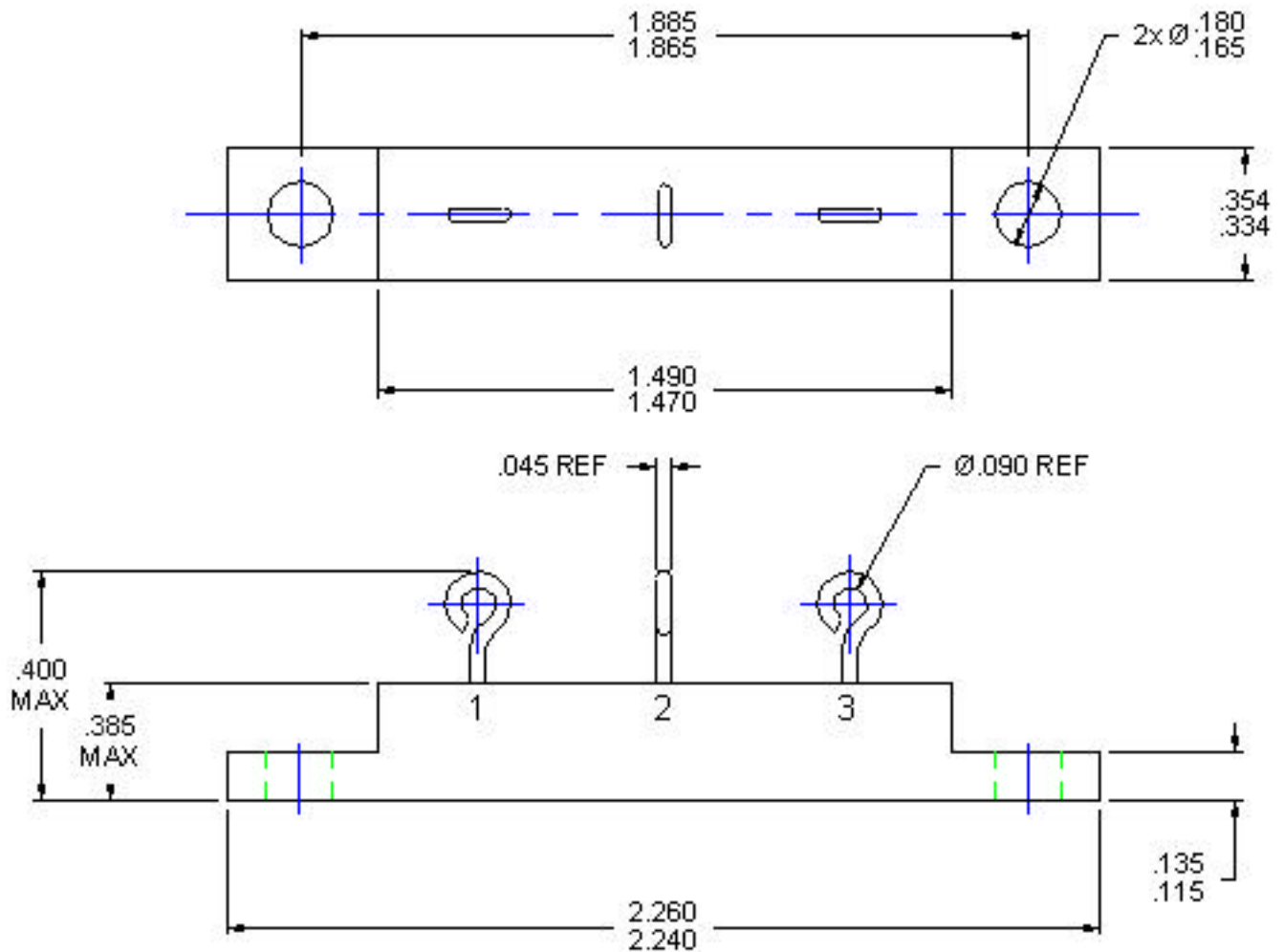
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**SDA381A
thru
SDA381G**

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