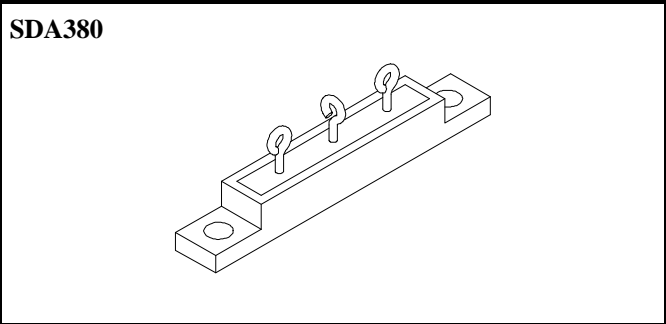


**SDA380A  
 THRU  
 SDA380G**

**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
<b>Peak Repetitive and Peak Surge Reverse Voltage</b>	SDA380A	50	Volts
	SDA380B	100	
	SDA380C	200	
	SDA380D	400	
	SDA380E	600	
	SDA380F	800	
SDA380G	1000		
<b>Average Rectified Forward Current</b> <sup>2</sup> (Resistive Load, 60 hz Sine Wave, T <sub>A</sub> = 25°C, No Heatsink)	I <sub>O</sub>	10	Amps
<b>Peak Surge Current</b> <sup>1</sup> (8.3 ms Pulse, Half Sine Wave, T <sub>A</sub> = 25 °C, per leg)	I <sub>FSM</sub>	75	Amps
<b>Operating &amp; Storage Temperature</b>	Top & Tstg	-55 to +150	°C
<b>Maximum Thermal Resistance</b> Junction to Case	R <sub>θJC</sub>	5.0	°C/W

<sup>1/</sup> Both legs tied together  
<sup>2/</sup> Per leg



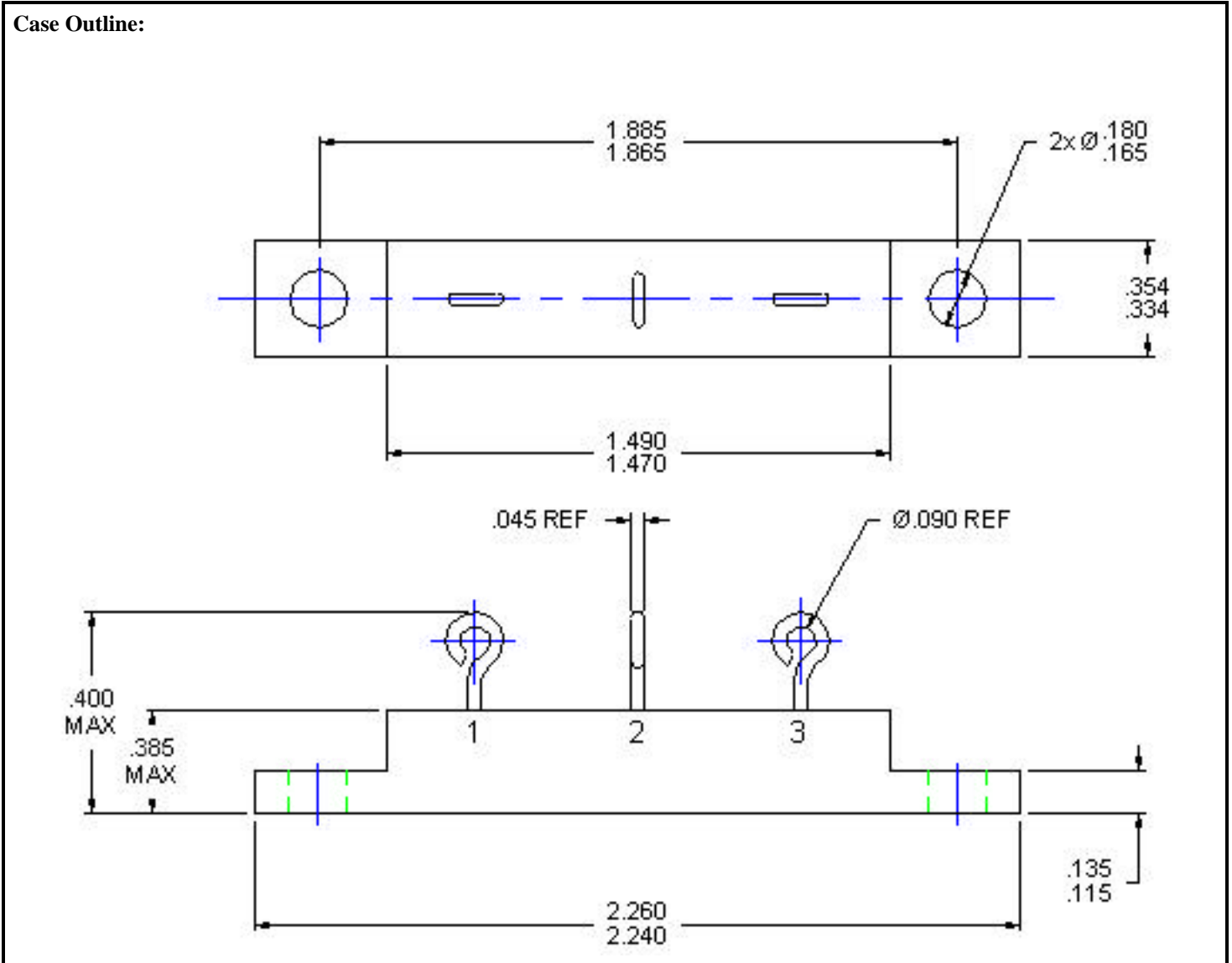
# Solid State Devices, Inc.

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

## SDA380A thru SDA380G

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

1/ Guaranteed / not tested



FOR OPERATING CURVES, PLEASE CONTACT THE FACTORY