

14701 Firestone Blvd \* La Mirada, Ca 90638 Phone: (562) 404-4474 \* 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**

### Part Number/Ordering Information 1/ **SDA380**

Screening 2/ = Not Screened TX = TX Level TXV = TXVS = S Level

#### Configuration

C = Common Cathode A = Common Anode D = Doubler

#### Voltage

A = 50VB = 100VC = 200V E = 600VF = 800V

G = 1000V

D = 400V

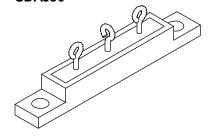
# Features:

- Unheatsunk Average Output Current: 10 Amps
- Low Reverse Leakage Current
- · Low Junction Capacitance
- Hermetically Sealed Discretes
- Aluminum Case for Maximum Thermal Conductivity
- Common Cathode, Common Anode and Doubler Versions
- Fast and Ultra Fast Recovery Versions Available -Contact Factory
- TX and TXV Level screening Available

Maximum Ratings		Symbol	Value	Units	
Peak Repetitive and Peak Surge Reverse Voltage	SDA380A SDA380B SDA380C SDA380D SDA380E SDA380F SDA380G	V <sub>RRM</sub> V <sub>RSM</sub> V <sub>R</sub>	50 100 200 400 600 800 1000	Volts	
Average Rectified Forward Current <sup>4/</sup> (Resistive Load, 60 hz Sine Wave, T <sub>A</sub> = 25°C, No	Heatsink)	lo	10	Amps	
Peak Surge Current $\frac{3}{4}$ (8.3 ms Pulse, Half Sine Wave, $T_A = 25^{\circ}$ C, per leg	1)	I <sub>FSM</sub>	125	Amps	
Operating & Storage Temperature		Top & Tstg	-55 to +150	°C	
Maximum Thermal Resistance Junction to Case		$R_{ heta JC}$	5.0	°C/W	

**SDA380** 

- 1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Both legs tied together
- 4/ Per leg





SDA380A thru SDA380G

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Electrical Characteristics	Symbol	Value	Units
Instantaneous Forward Voltage Drop (I <sub>F</sub> = 5A, T <sub>A</sub> = 25°C, 300 - 500 μsec pulse)	V <sub>F1</sub>	1.1	V <sub>DC</sub>
Instantaneous Forward Voltage Drop <sup>5/</sup> (I <sub>F</sub> = 5A, T <sub>A</sub> = -55°C, 300 – 500μsec pulse)	V <sub>F2</sub>	1.35	V <sub>DC</sub>
Reverse Leakage Current (Rated V <sub>R</sub> , T <sub>A</sub> = 25°C, 300 μsec pulse minimum)	I <sub>R1</sub>	5	μΑ
Reverse Leakage Current (Rated $V_R$ , $T_A$ = 100°C, 300 µsec pulse minimum)	I <sub>R2</sub>	0.5	mA
Reverse Recovery Time $(T_A = 25^{\circ}C, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A)$	T <sub>RR</sub>	5	µsec

5/ Guaranteed / not tested

