



**SDA117A thru SDA117G**

**4.0 AMPS  
 50 to 1,000 VOLTS  
 STANDARD RECOVERY  
 SINGLE PHASE BRIDGE RECTIFIER**

**Designer's Data Sheet**

**Part Number/Ordering Information <sup>1/</sup>**

SDA117 — —

<sup>2/</sup> Screening <sup>2/</sup>      — = Not Screened  
                                   TX = TX Level  
                                   TXV = TXV  
                                   S = S Level

**Peak Inverse Voltage**  
 A = 50V, B = 100V, C = 200V, D = 400V  
 E = 600V, F = 800V, and G = 1,000V.

- FEATURES:**
- Average Output Current 4.0 Amps @ 55°C
  - PIV 50 to 1,000 Volts Per Leg
  - All Welded Interconnects
  - Hermetically Sealed Diode Cells
  - Universal 2 Mounting Position Case
  - Thermal Conductive Epoxy Encapsulated
  - Available in Fast , Ultra Fast, and Hyper Fast Versions
  - TX, TXV, and S-Level Screening Available

**ELECTRICAL CHARACTERISTICS <sup>3/</sup>**

Part Number	Peak Inverse Voltage (per leg)	Sine Wave RMS Input Voltage Max.	Reverse <sup>4/</sup> Recovery Time	Average DC Output Current T <sub>c</sub> =Case Temp			Peak 1 Cycle Forward Surge	Peak Recurrent Forward Surge	Maximum Forward Voltage Drop (per leg)		Reverse Current (per leg) @ PIV	
				I <sub>F(AV)</sub>	I <sub>FSM</sub>	I <sub>FRM</sub>			V <sub>F</sub>	I <sub>R</sub>		
Symbol	PIV	V <sub>r</sub>	T <sub>rr</sub>	I <sub>F(AV)</sub>			I <sub>FSM</sub>	I <sub>FRM</sub>	V <sub>F</sub>		I <sub>R</sub>	
Units	Volts		µs	Amps			Amps	Amps	Volts	Amps	µA	
Conditions			Max	55°C	100°C	125°C			V <sub>F</sub>	I <sub>F</sub>	25°C	100°C
SDA117A	50	35	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117B	100	70	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117C	200	140	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117D	400	280	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117E	600	420	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117F	800	560	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50
SDA117G	1000	700	5	4.0	2.5	2.0	50	10	1.2	3.0	2	50

**SDA117 Package <sup>5/</sup>**

**NOTES:**

- 1/ For Ordering Information, Price, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.
- 4/ Recovery Conditions: I<sub>F</sub> = 0.5 Amp, I<sub>R</sub> = 1.0 Amp rec. to .25 Amp.
- 5/ For Information on Curves, Contact Factory for Assistance.

