



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 ^{1/}

SDA117 — —

^{2/} Screening — = 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 ^{3/}

Part Number	Peak Inverse Voltage (per leg)	Sine Wave RMS Input Voltage Max.	Reverse ^{4/} Recovery Time	Average DC Output Current T _c =Case Temp			Peak 1 Cycle Forward Surge	Peak Recurrent Forward Surge	Maximum Forward Voltage Drop (per leg)		Reverse Current (per leg) @ PIV	
				I _{F(AV)}	I _{FSM}	I _{FRM}			V _F	I _R		
Symbol	PIV	V _r	T _{rr}	I _{F(AV)}			I _{FSM}	I _{FRM}	V _F		I _R	
Units	Volts		µs	Amps			Amps	Amps	Volts	Amps	µA	
Conditions			Max	55°C	100°C	125°C			V _F	I _F	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 ^{5/}

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_F = 0.5 Amp, I_R = 1.0 Amp rec. to .25 Amp.
- 5/ For Information on Curves, Contact Factory for Assistance.

