



SDA138A thru SDA138G

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

Designer's Data Sheet

Part Number/Ordering Information ^{1/}
 SDA138 — —

Screening ^{2/}
 — = 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 10 Amps @ 55°C
 - PIV 50 to 1,000 Volts Per Leg
 - Maximum Thermal Resistance 5°C/W
 - All Welded Interconnects
 - Hermetically Sealed Diode Cells
 - Universal 2 Mounting Position Case
 - All Machined Aluminum Case
 - Available in Fast, Ultra Fast, and Hyper Fast Versions

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			Average DC Output Current T _A =Ambient Temp (No Heat Sink)		Peak 1 Cycle Forward Surge	Peak Recurrent Forward Surge	Maximum Forward Voltage Drop (per leg) @ 3 ADC	Reverse Current (per leg) @ PIV	
				I _{F(AV)}	I _{F(AV)}	I _{F(AV)}	I _{F(AV)}	I _{F(AV)}				I _R	I _R
Symbol	PIV	V _r	T _{rr}	I _{F(AV)}			I _{F(AV)}		I _{FSM}	I _{FRM}	V _F	I _R	
Units	Volts		µs	Amps			Amps		Amps	Amps	Volts	µA	
Conditions			Max	55°C	100°C	125°C	55°C	100°C			V _F	25°C	100°C
SDA138A	50	35	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138B	100	70	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138C	200	140	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138D	400	280	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138E	600	420	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138F	800	560	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50
SDA138G	1000	700	5	10.0	7.0	5.0	1.5	1.0	100	30	1.1	2	50

SDA 138A thru SDA138G:

NOTES:

- 1/** For Ordering Information, Price, Curves, 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.

