

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SD820 THRU SD8100

Features

- Halogen free available upon request by adding suffix "-HF" Low Switching Noise and Low Forward Voltage Drop
- High Current Capability and High Surge Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Ambient

MCC	Maximum Recurrent Peak	Maximum	Maximum DC Blocking
Part Number	Reverse Voltage	RMS Voltage	Voltage
SD820	20V	14V	20V
SD830	30V	21V	30V
SD840	40V	28V	40V
SD850	50V	35V	50V
SD860	60V	42V	60V
SD880	80V	56V	80V
SD8100	100V	70V	100V

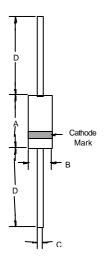
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	8.0A	$T_A = 90^{\circ}C$
Peak Forward Surge Current	I _{FSM}	175A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
SD820-SD860 SD880-SD8100	V_{F}	.62V .85V	$I_{FM} = 8.0A;$ $T_A = 25^{\circ}C(Note\ 2)$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.5mA 50mA	$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$
Typical Junction Capacitance	C_J	550pF	Measured at 1.0MHz, V _R =4.0V

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2.Pulse test: Pulse width 300 µsec, Duty cycle 1%

8 Amp Schottky **Barrier Rectifier** 20 to 100 Volts

DO-201AD



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.287	.374	7.30	9.50		
В	.189	.208	4.80	5.30		
С	.048	.052	1.20	1.30		
D	1.000		25.40			

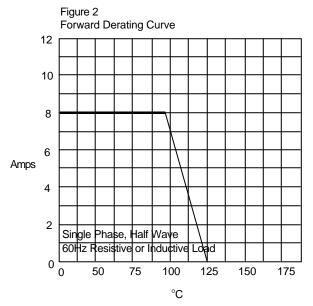
SD820 thru SD8100



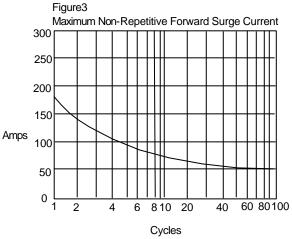
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Figure 1 Typical Forward Characteristics 20 10 6 4 2 Amps .6 .4 .2 .1 .06 .04 .02 .01 .2 .6 .8 1.0 1.2

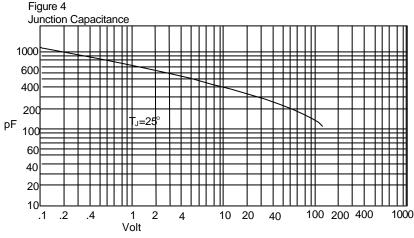
Volts
Instantaneous Forward Current - Amperes *versus*Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes versus Ambient Temperature - $^{\circ}\text{C}$



Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles



Junction Capacitance - pF *versus* Reverse Voltage - Volts



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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