

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The properitary barrier technology allows for reliable operation up to 150° C junction temperature. Typical application are in switching Mode Power Supplies such as adaptators, DC/DC convertes,freewheeling and polarity protection diodes.

Features

- *Super Low Forward Voltage.
- *Low Switching noise.
- *High Current Capacity
- *Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- *150°C Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- *Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O



* In compliance with EU RoHs 2002/95/EC directives

MAXIMUM RATINGS

Characteristic	Symbol	SR10060L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	60	٧
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectifier Forward Current	lo	10	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	175	Α
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

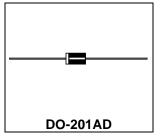
Maximum Thermal Resistance junction to case	R _{θ j-c}	40	°C/w
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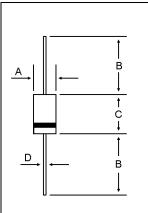
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR10060L		Unit	
Maximum Instantaneous Forward Voltage		Min	Тур.	Max.	
(I_F =0.1 Amp T_C = 25 $^{\circ}$ C)			0.26	0.28	V
(I_F =5.0 Amp T_C = 25 $^{\circ}$ C)	V _F		0.44	0.49	V
(I _F =10 Amp T _C = 25°C)			0.50	0.60	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25°ℂ)	I_R		0.17	0.25	mA
(Rated DC Voltage, T _C = 100℃)			15	30	

SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 60 VOLTS



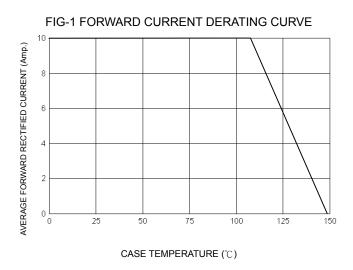


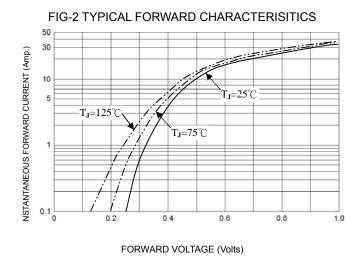
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
С	5.02	6.52	
0	3.70	3.90	

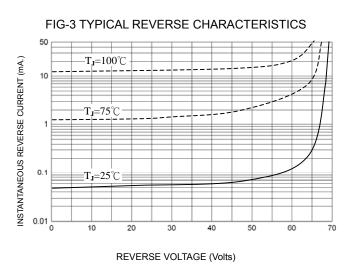
CASE--Transfer molded plastic

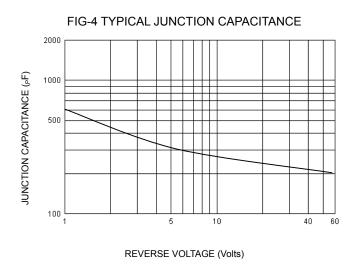
POLARITY--Cathode indicated

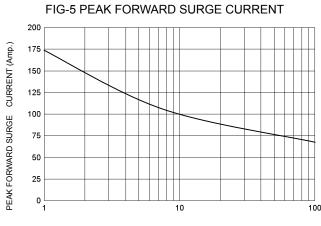
polarity band













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