

Schottky Barrier Rectifiers

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

Features

- *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

* Moisture Sensitivity Level: MSL-1



*ESD: 8KV(Min.) Humen-Body Model

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

MAXIMUM RATINGS

Characteristic	Symbol	SR3100L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	>
RMS Reverse Voltage	VR _(RMS)	70	٧
Average Rectifier Forward Current	Io	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase,60Hz)	I _{FSM}	75	А
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

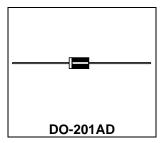
Typical Thermal Resistance junction from Junction to ambient	R _{θ j-A}	30	°C/w
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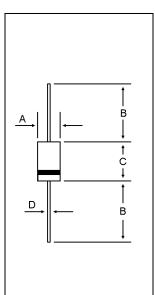
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR3100L		Unit	
Gilal acteristic	Syllibol	Min.	Тур.	Max.	Offic
Maximum Instantaneous Forward Voltage					
(I _F =0.1 Amp)	VF		0.31	0.35	V
(I _F =1.5 Amp)	VF		0.55	0.60	V
(I _F =3.0 Amp)			0.75	0.85	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		0.1 20		mA
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		150		₽F

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 100 VOLTS



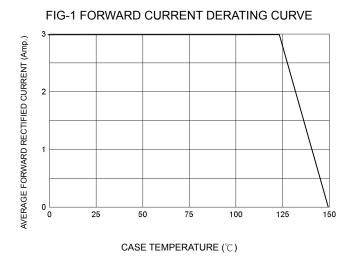


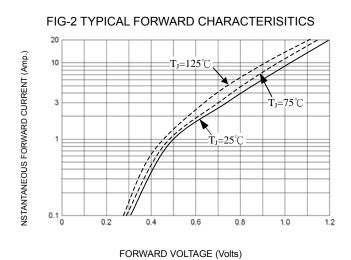
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	5.00	5.60	
В	25.40		
С	8.50	9.50	
D	1.20	1.30	

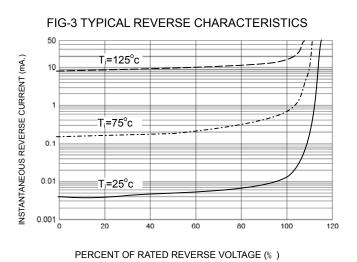
CASE---Transfer molded

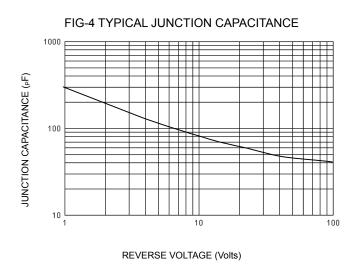
plastic

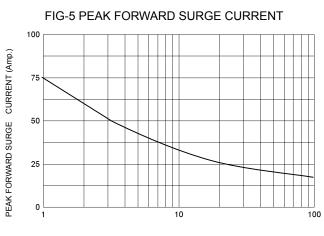
POLARITY---Cathode indicated polarity band











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