

Surface Mount Schottky Barrier rectifiers

Using the Schottky Barrier principle with 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, Photovoltaic Solar cell protection,freewheeling and polarity protection diodes.

Features

- *Ultra Low Forward Voltage.
- *Low Switching noise.
- *High Current Capacity
- *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	SR36L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current	I _{F(AV)}	3	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	6	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	125	Α
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

Typical Thermal Resistance junction to body	R _{θ j-c}	55	°C/w
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ELECTRICAL CHARACTERISTICS

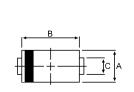
Characteristic	Symbol		SR36L		Unit
Maximum Instantaneous Forward Voltage		Min	Тур.	Max.	
($I_F = 0.1 \text{ Amp T}_C = 25^{\circ}C$)	V _F		0.25	0.26	V
($I_F = 1.5 \text{ Amp T}_C = 25^{\circ}C$)	V F		0.40	0.44	V
($I_F = 3.0 \text{ Amp T}_C = 25^{\circ}\text{C}$)			0.47	0.49	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25°C)	I _R		0.3		mA
(Rated DC Voltage, T _C = 100℃)			30		

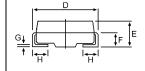
SCHOTTKY BARRIER RECTIFIERS

3 AMPERES 60VOLTS



DO-214AA(SMB)





DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	3.30	3.90	
В	4.20	4.60	
С	1.80	2.20	
D	5.10	5.60	
Е	1.90	2.50	
F		1.30	
G		0.22	
н	0.95	1 35	

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band



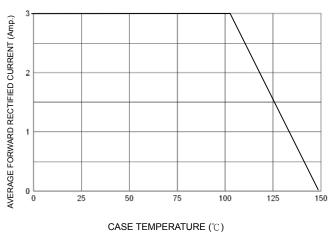
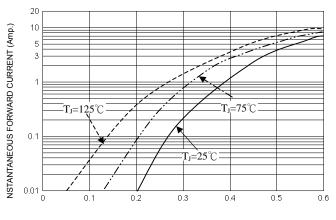
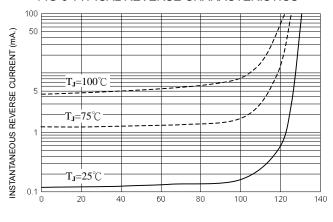


FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE

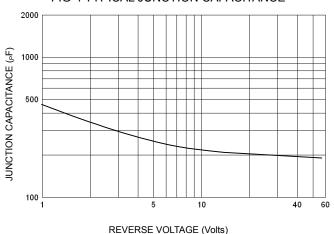
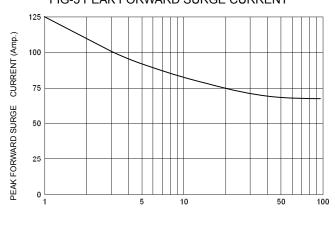


FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz



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