

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

Features

- *Low Switching noise.
- *High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- * High Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory
- * Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

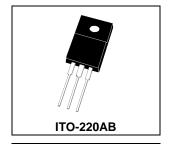
Characteristic	Symbol	SRF30100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100°C	I _{F(AV)}	15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	250	А
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	$^{\circ}\!\mathbb{C}$

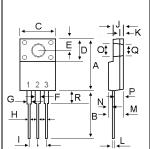
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 15 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.78 0.68	0.85	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R		0.09 0.5	1	uA mA	

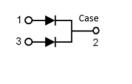
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 100 VOLTS

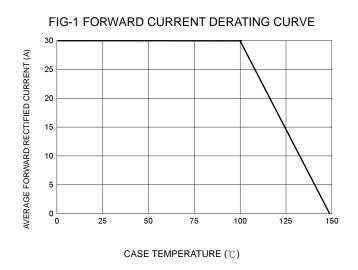


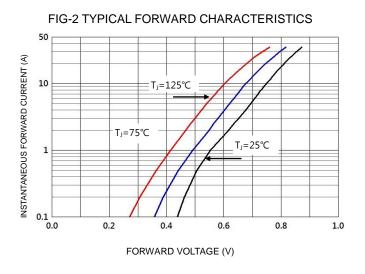


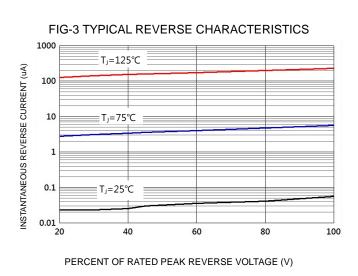
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.80	16.10	
В	12.65	13.80	
С	9.85	10.36	
D	4.60	6.80	
E	2.50	3.50	
F	1.00	1.45	
G	1.00	1.45	
Н	0.30	0.90	
- 1	2.40	2.70	
J	2.34	3.30	
K	0.55	1.30	
L	0.36	0.80	
M	4.20	4.90	
N	1.10	1.80	
0	2.90	3.50	
Р	2.50	3.15	
Q	2.90	3.50	
R	3.10	4.85	

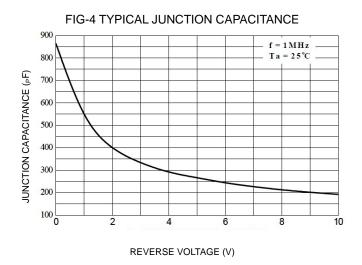


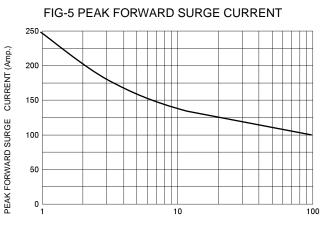












NUMBER OF CYCLES AT 60 Hz



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