

Switchmode Full Plastic Dual Schottky Barrier Power 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 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

MAXIMUM RATINGS

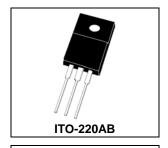
Characteristic	Symbol	SRF20150C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
RMS Reverse Voltage	V _{R(RMS)}	105	٧
Average Rectifier Forward Current (per diode) Total Device (Rated V_R), T_C =100 $^{\circ}$ C	I _{F(AV)}	10 20	A
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)		20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)		150	А
Operating and Storage Junction Temperature Range		-65 to +150	$^{\circ}\!\mathbb{C}$

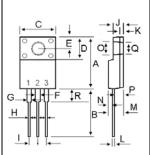
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SRF20150C	Unit
Maximum Instantaneous Forward Voltage (per diode) ($I_F = 10 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 10 \text{ Amp } T_C = 125^{\circ}C$)	V _F	0.95 0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R	0.2 10	mA
Maximum Thermal resistance Per lead (per device) Junction to case Junction to Ambient	R⊝JA R _θ Jc	2.5 50	°C/W

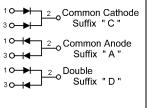
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 150 VOLTS





- · · ·	MILLIMETERS		
DIM	MIN	MAX	
Α	14.90	15.15	
В	13.35	13.55	
С	10.00	10.10	
D	6.55	6.65	
E	2.65	2.75	
F	1.55	1.65	
G	1.15	1.25	
Н	0.55	0.65	
- 1	2.50	2.60	
J	3.00	3.20	
K	1.10	1.20	
L	0.55	0.65	
M	4.40	4.60	
N	1.15	1.25	
0	3.35	3.45	
Р	2.65	2.75	
Q	3.15	3.25	
R	3.60	3.80	



SRF20150C

