

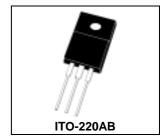
Switchmode Full Plastic Dual Schottky Barrier Power Rectifiers

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.

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 30-60 VOLTS

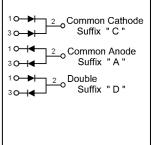


MAXIMUM RATINGS

Characteristic	Cymbol	SRF30						l lm!t	
Characteristic	Symbol	30	35	40	45	50	60	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	٧	
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	٧	
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100	I _{F(AV)}				5			А	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}			3	0			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}			25	50			А	
Operating and Storage Junction Temperature Range	T _J , T _{STG}			-65 to	+125				

C F N M M

	NAUL INAUTEDO						
DIM	MILLIMETERS						
ביי ביי	MIN	MAX					
Α	15.05	15.15					
В	13.35	13.45					
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					
I	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					
Р	2.65	2.75					
0	3.35	3.45					
Q	3.15	3.25					



ELECTRIAL CHARACTERISTICS

30 35 40 45 50 60	Unit
$(I_F = 15 \text{ Amp } T_C = 25)$ V_F 0.55 0.65 0.58 0.58	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) I_R 1.0 (Rated DC Voltage, $T_C = 125$) 30	mA

SRF3030 Thru SRF3060



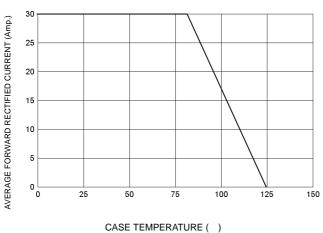
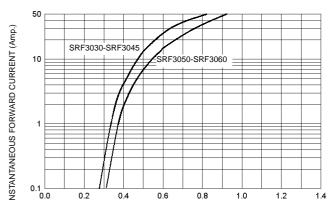
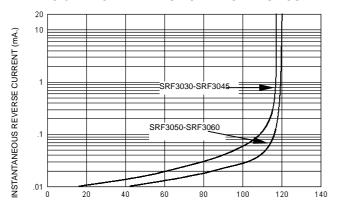


FIG-2 TYPICAL FORWARD CHARACTERISITICS



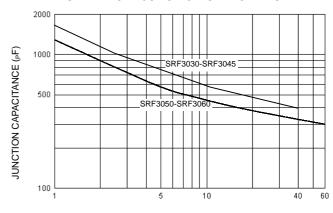
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



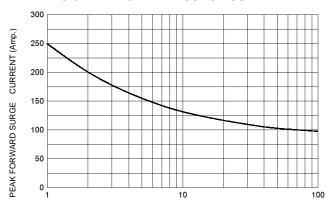
PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz