

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

Mechanical Data

- * Case :JEDEC ITO-220AB molded plastic body
- * Terminals:Plated lead,solderable per MIL-STD-750, Method 2026
- * Polarity:As marked
- * Mounting Torque: 4-6kg.cm
- * Weight:1.7 g approx.

Plating pb free is indicated by box

"G" Green product

The green product is indicated by the date code before with alphabet "G" XMY

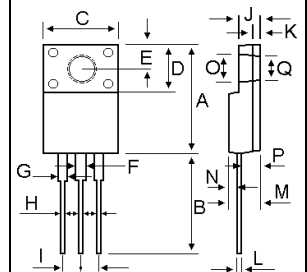


SCHOTTKY BARRIER RECTIFIERS

**10 AMPERES
30-60 VOLTS**



ITO-220AB



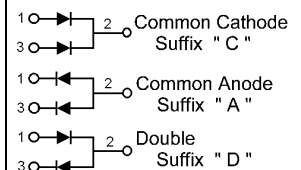
MAXIMUM RATINGS

Characteristic	Symbol	SRF10						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	30	35	40	45	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V_R), $T_C=100$	$I_{F(AV)}$	5.0 10						A
Peak Repetitive Forward Current (Rate V_R , Square Wave, 20kHz)	I_{FM}	10						A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	I_{FSM}	100						A
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-65 to +125						

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SRF10						Unit	
		30	35	40	45	50	60		
Maximum Instantaneous Forward Voltage ($I_F=5$ Amp $T_C=25$) ($I_F=5$ Amp $T_C=125$)	V_F	0.55 0.47						0.65 0.55	V
Typical Thermal Resistance junction to case	$R_{\theta j-c}$	3.0							/w
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C=25$) (Rated DC Voltage, $T_C=125$)	I_R	0.5 20							mA

DIM	MILLIMETERS	
	MIN	MAX
A	15.05	15.15
B	13.35	13.45
C	10.00	10.10
D	6.55	6.65
E	2.65	2.75
F	1.55	1.65
G	1.15	1.25
H	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
P	2.65	2.75
O	3.35	3.45
Q	3.15	3.25



SRF1030 Thru SRF1060

FIG-1 FORWARD CURRENT DERATING CURVE

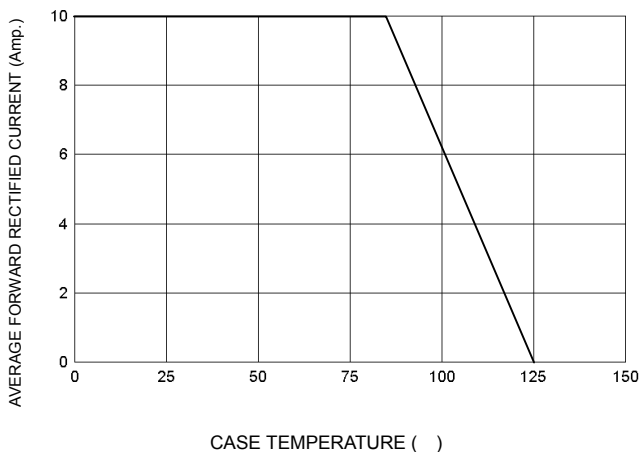


FIG-2 TYPICAL FORWARD CHARACTERISTICS

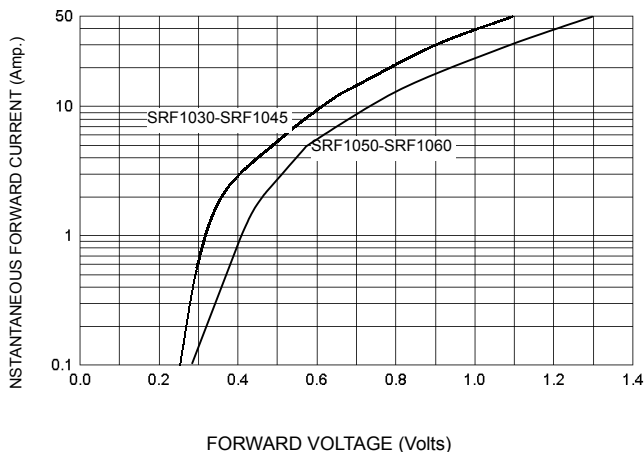


FIG-3 TYPICAL REVERSE CHARACTERISTICS

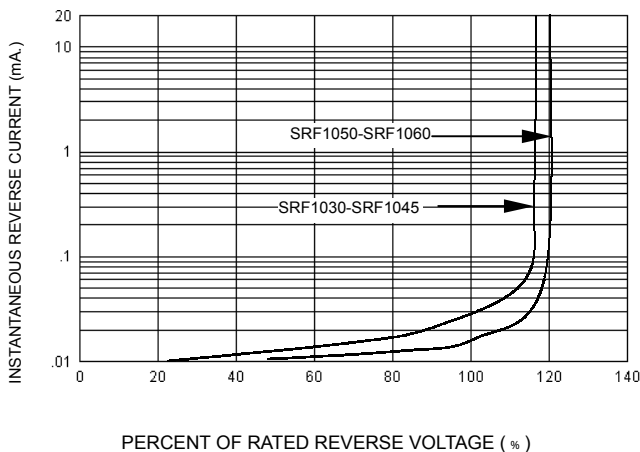


FIG-4 TYPICAL JUNCTION CAPACITANCE

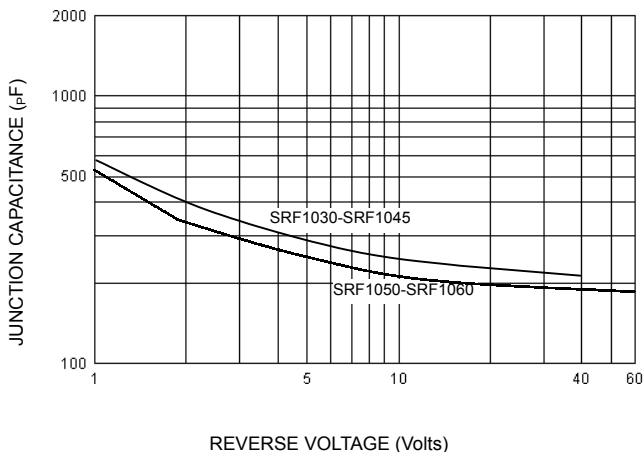


FIG-5 PEAK FORWARD SURGE CURRENT

