

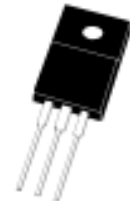
### Switchmode Full Plastic Dual Schottky Barrier Power Rectifiers

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 $\mu$  Operating Junction Temperature
- \* Low Stored Charge Majority Carrier Conduction.
- \* Plastic Material used Carries Underwriters Laboratory

#### SCHOTTKY BARRIER RECTIFIERS

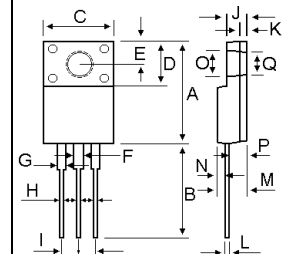
**16 AMPERES  
70-100 VOLTS**



ITO-220

#### MAXIMUM RATINGS

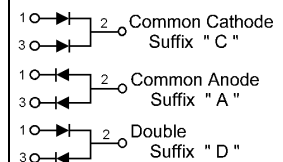
Characteristic	Symbol	SRF16				Unit
		70	80	90	100	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	70	80	90	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	56	63	70	V
Average Rectifier Forward Current Total Device (Rated $V_R$ ), $T_C=100\mu$	$I_{F(AV)}$	8.0 16				A
Peak Repetitive Forward Current (Rate $V_R$ , Square Wave, 20kHz)	$I_{FM}$	16				A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	$I_{FSM}$	150				A
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	-65 to +125				$\mu$



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

#### ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SRF16				Unit
		70	80	90	100	
Maximum Instantaneous Forward Voltage ( $I_F=8$ Amp $T_C=25\mu$ ) ( $I_F=8$ Amp $T_C=125\mu$ )	$V_F$	0.75 0.68		0.85 0.73		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C=25\mu$ ) (Rated DC Voltage, $T_C=125\mu$ )	$I_R$		1.0 20			mA



# SRF1670 Thru SRF16100

FIG-1 FORWARD CURRENT DERATING CURVE

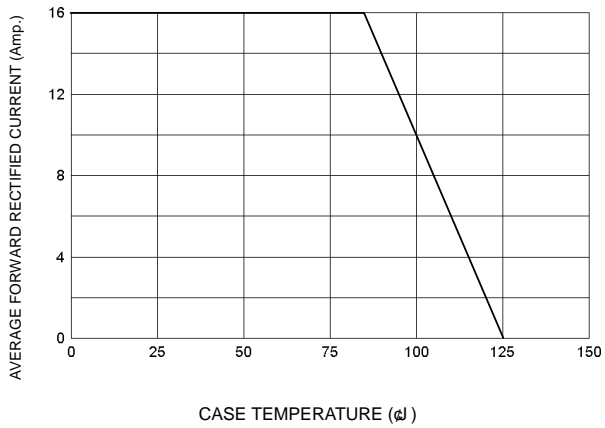


FIG-2 TYPICAL FORWARD CHARACTERISTICS

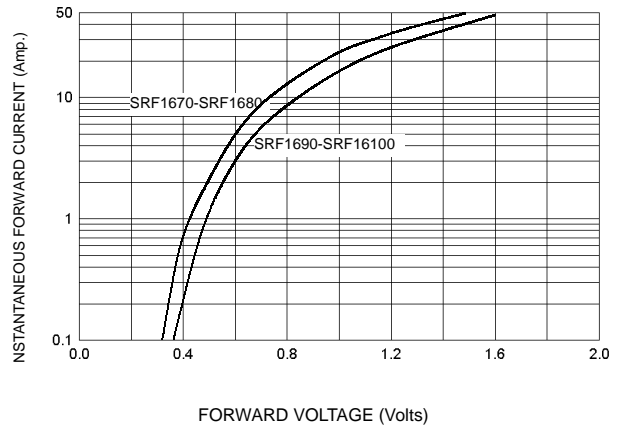


FIG-3 TYPICAL REVERSE CHARACTERISTICS

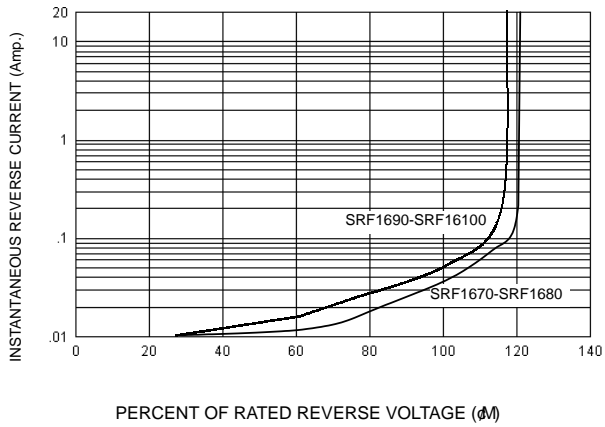


FIG-4 TYPICAL JUNCTION CAPACITANCE

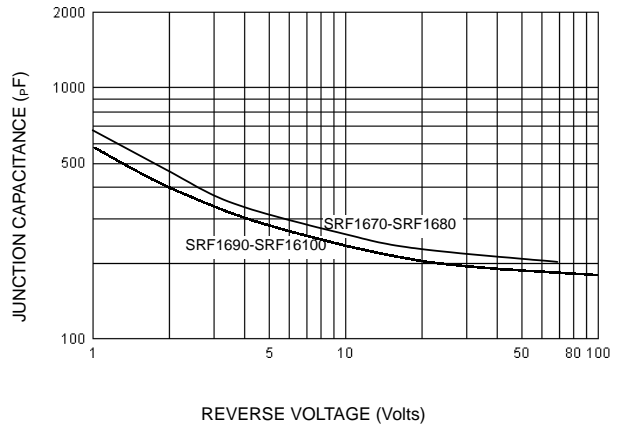


FIG-5 PEAK FORWARD SURGE CURRENT

