

### 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

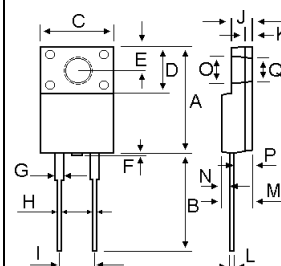
**10 AMPERES  
70-100 VOLTS**



ITO-220AC

### MAXIMUM RATINGS

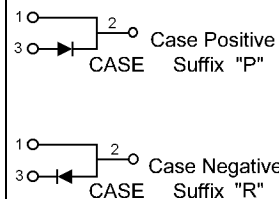
Characteristic	Symbol	SRAF10				Unit
		70	80	90	100	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	70	80	90	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	56	63	70	V
Average Rectifier Forward Current	$I_{F(AV)}$	10				A
Peak Repetitive Forward Current (Rate $V_R$ , Square Wave, 20kHz)	$I_{FM}$	20				V
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	$I_{FSM}$	175				V
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	-65 to +125				



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	---	1.00
G	1.15	1.25
H	0.55	0.65
I	4.80	5.20
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	SRAF10				Unit
		70	80	90	100	
Maximum Instantaneous Forward Voltage ( I <sub>F</sub> =10 Amp T <sub>C</sub> = 25 ) ( I <sub>F</sub> =10 Amp T <sub>C</sub> = 125 )	V <sub>F</sub>	0.75 0.70		0.80 0.68		V
Maximum Instantaneous Reverse Current ( Rated DC Voltage, T <sub>C</sub> = 25 ) ( Rated DC Voltage, T <sub>C</sub> = 125 )	I <sub>R</sub>	1.0 50				mA



# SRAF1070 thru SRAF10100

FIG-1 FORWARD CURRENT DERATING CURVE

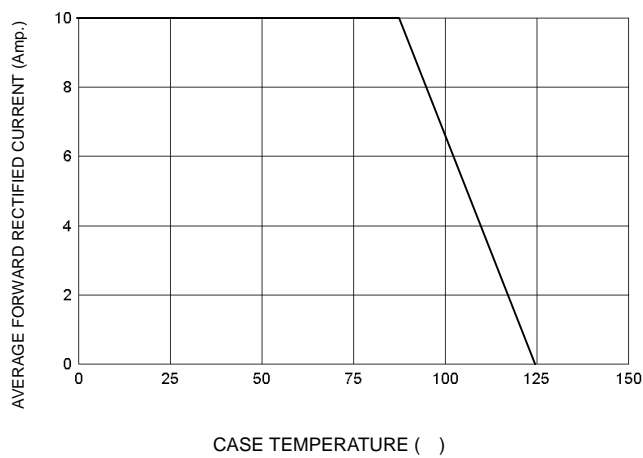


FIG-2 TYPICAL FORWARD CHARACTERISTICS

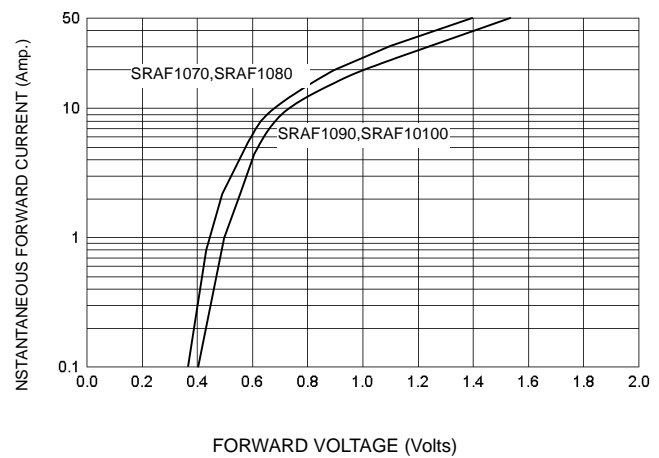


FIG-3 TYPICAL REVERSE CHARACTERISTICS

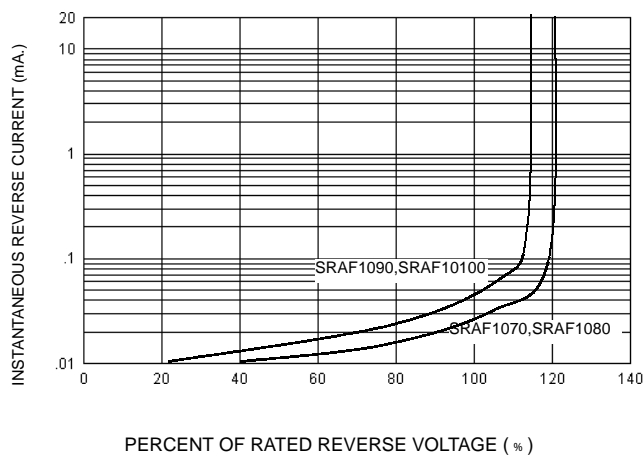


FIG-4 TYPICAL JUNCTION CAPACITANCE

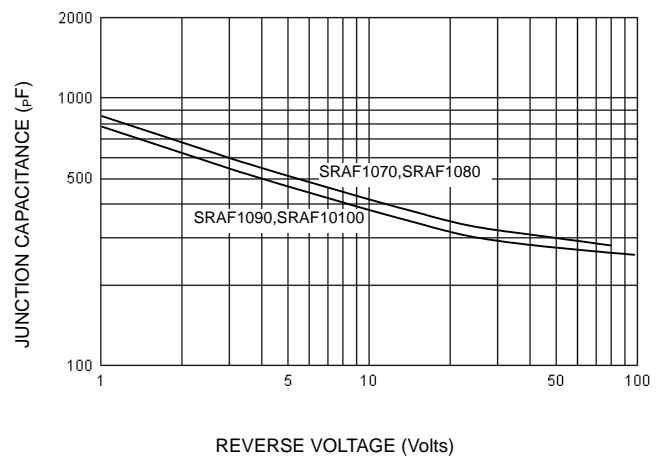


FIG-5 PEAK FORWARD SURGE CURRENT

