

# 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

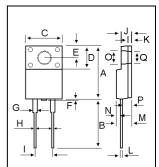
## SCHOTTKY BARRIER RECTIFIERS

5 AMPERES 70-100 VOLTS

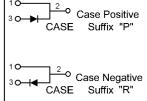


### **MAXIMUM RATINGS**

	Symbol	SRAF05				
Characteristic		70	80	90	100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	70	80	90	100	٧
RMS Reverse Voltage	V <sub>R(RMS)</sub>	49	56	63	70	٧
Average Rectifier Forward Current	I <sub>F(AV)</sub>	5.0				Α
Peak Repetitive Forward Current (Rate V <sub>R</sub> , Square Wave, 20kHz)	I <sub>FM</sub>	10				V
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I <sub>FSM</sub>	100				V
Operating and Storage Junction Temperature Range	$T_J$ , $T_STG$	-65 to +125				

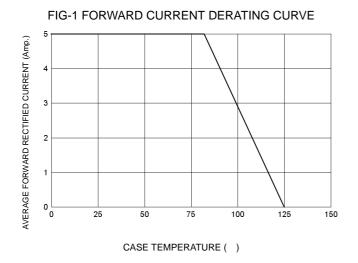


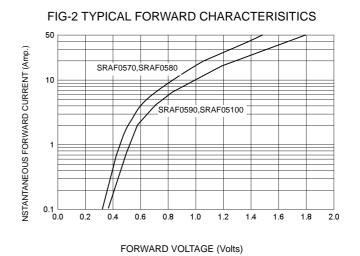
DIM	MILLIMETERS				
DIM	MIN	MAX			
Α	15.05	15.15			
В	13.35	13.45			
С	10.00	10.10			
D	6.55	6.65			
E	2.65	2.75			
F		1.00			
G	1.15	1.25			
Н	0.55	0.65			
ı	4.80	5.20			
J	3.00	3.20			
K	1.10	1.20			
L	0.55	0.65			
M	4.40	4.60			
N	1.15	1.25			
Р	2.65	2.75			
0	3.35	3.45			
Q	3.15	3.25			

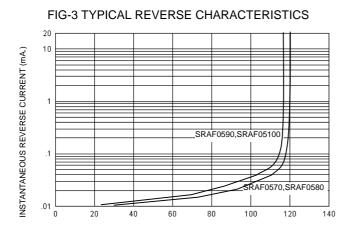


#### **ELECTRIAL CHARACTERISTICS**

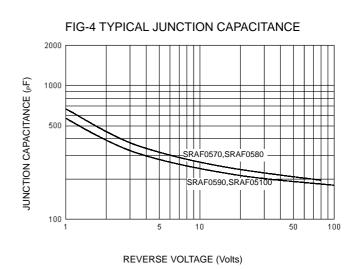
Characteristic	Symbol	SRAF05				Unit
Characteristic		70	80	90	100	Onit
Maximum Instantaneous Forward Voltage ( $I_F = 5 \text{ Amp } T_C = 25$ ) ( $I_F = 5 \text{ Amp } T_C = 125$ )	V <sub>F</sub>	0.75 0.68		0.80 0.72		V
Maximum Instantaneous Reverse Current ( Rated DC Voltage, $T_C = 25$ ) ( Rated DC Voltage, $T_C = 125$ )	I <sub>R</sub>	0.5 20		. •		

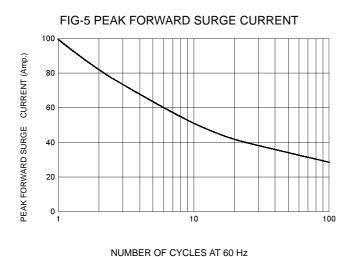






PERCENT OF RATED REVERSE VOLTAGE (%)







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