

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.

Features

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

Flammability Classification 94V-O



* In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

Characteristic	Symbol	SRAF08						Unit	
Characteristic	Syllibol	30	35	40	45	50	60	Oilit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$\begin{matrix} V_{RRM} \\ V_{RWM} \\ V_{R} \end{matrix}$	30	35	40	45	50	60	V	
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	V	
Average Rectifier Forward Current	I _{F(AV)}	8				Α			
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	8				Α			
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150				А			
Operating and Storage Junction Temperature Range	T_J , T_{stg}	-65 to +150			_				

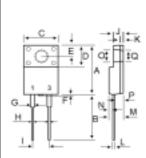
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SRAF08						Unit
		30	35	40	45	50	60	Unit
Maximum Instantaneous Forward Voltage ($I_F = 8.0 \text{ Amp } T_C = 25$) ($I_F = 8.0 \text{ Amp } T_C = 125$)	V _F	0.55 0.48		0.70 0.62		V		
Typical Thermal Resistance junction to case	R _{θ j-c}	3.8				/w		
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25) (Rated DC Voltage, T _C = 125)	I _R	0.5 20				mA		

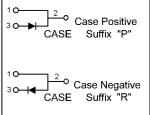
SCHOTTKY BARRIER RECTIFIERS

8 AMPERES 30-60 VOLTS

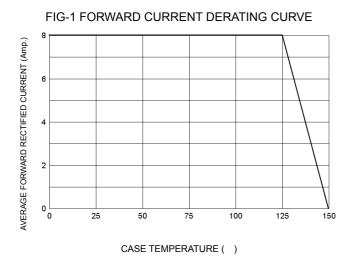


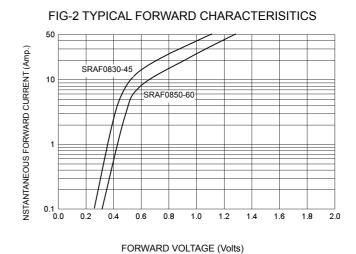


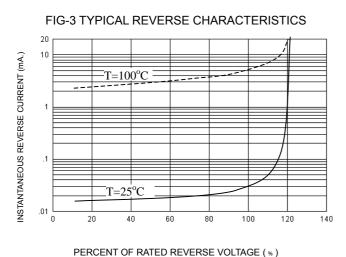
DIM	MILLIM	MILLIMETERS				
DIIVI	MIN	MAX				
Α	15.05	15.15				
В	13.35	13.45				
С	10.00	10.10				
D	6.55	6.65				
E	2.65	2.75				
F		1.00				
G	1.15	1.25				
Н	0.55	0.65				
- 1	4.80	5.20				
J	3.00	3.20				
K	1.10	1.20				
L	0.55	0.65				
M	4.40	4.60				
N	1.15	1.25				
0	3.35	3.45				
Р	2.65	2.75				
Q	3.15	3.25				

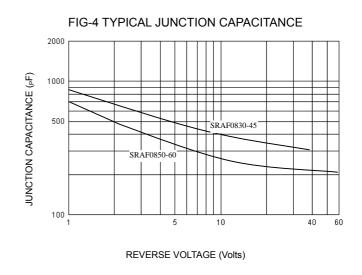


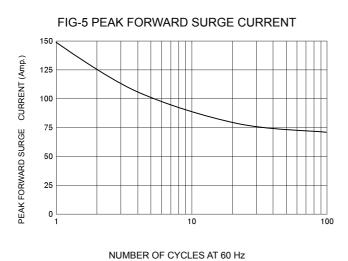
SRAF0830 thru SRAF0860













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