

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

- * ESD: 8KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

Characteristic	Symbol		Unit					
Characteristic		30	35	40	45	50	60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	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)}	10				Α		
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10			Α			
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200			А			
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150						

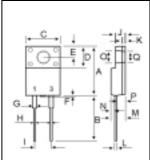
ELECTRIAL CHARACTERISTICS

		SDAE40						Unit
Characteristic	Symbol	SRAF10						
		30	35	40	45	50	60	O.III
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 125$)	V _F	0.55 0.48		0.70 0.60		V		
Typical Thermal Resistance junction to case	R _{θ j-c}	3.4				/w		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 20				mA		

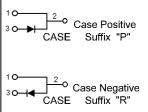
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 30-60 VOLTS

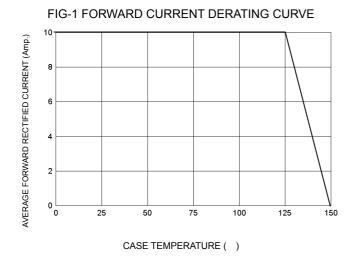


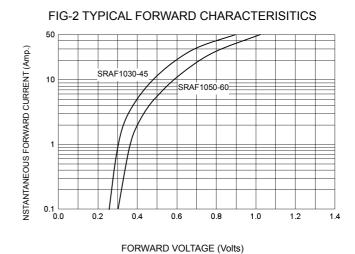


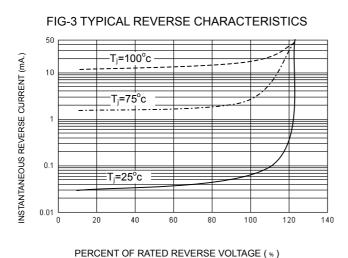
DIM	MILLIMETERS				
DIIVI	MIN	MAX			
Α	15.05	15.15			
В	13.35	13.45			
С	10.00	10.10			
D	6.55	6.65			
E	2.65	2.75			
F		1.00			
G	1.15	1.25			
Н	0.55	0.65			
- 1	4.80	5.20			
J	3.00	3.20			
K	1.10	1.20			
L	0.55	0.65			
M	4.40	4.60			
N	1.15	1.25			
0	3.35	3.45			
Р	2.65	2.75			
Q	3.15	3.25			

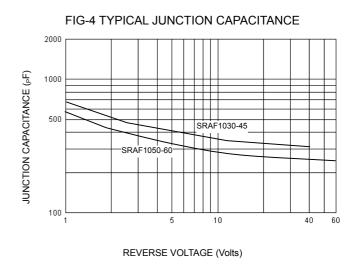


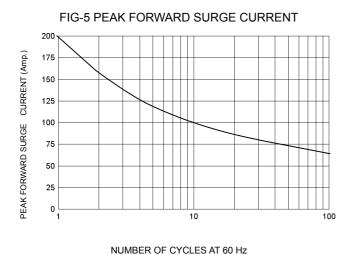
SRAF1030 Thru SRAF1060













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