

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

Mechanical Data

- * Case :JEDEC ITO-220AB molded plastic body
- * Terminals: Plated lead, solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting Torque: 4-6kg.cm
- * Weight: 1.7 g approx.
- * ESD: 8KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

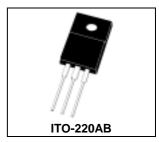
Characteristic	Symbol		Unit					
Characteristic	Symbol	30	35	40	45	50	60	Uilit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	30	35	40	45	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	21	25	28	32	35	42	V
Average Rectifier Forward Current (Per dioed) Total Device (Rated V_R), T_C =125	I _{F(AV)}	15 30					Α	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30					А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	250					А	
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150						

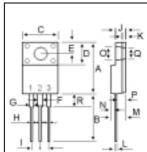
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SRF30						Unit
		30	35	40	45	50	60	Ollit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25$) ($I_F = 15 \text{ Amp } T_C = 100$)	V_{F}	0.55 0.48			0.70 0.61		V	
Typical Thermal Resistance junction to case	R _{θ j-c}	3.0				/w		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 30				mA		

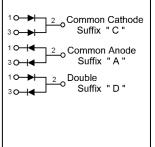
SCHOTTKY BARRIER RECTIFIERS

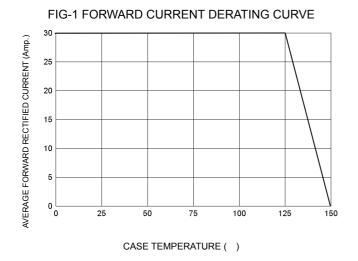
30 AMPERES 30-60 VOLTS

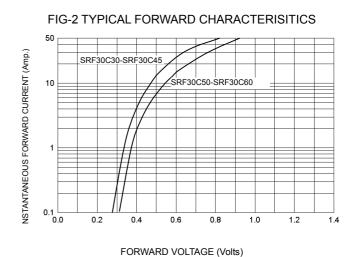


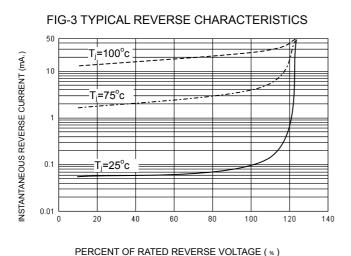


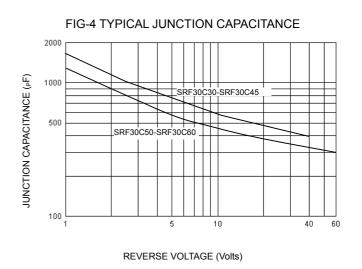
DIM	MILLIMETERS					
DIIVI	MIN	MAX				
Α	15.05	15.15				
В	13.35	13.45				
С	10.00	10.10				
D	6.55	6.65				
E	2.65	2.75				
F	1.55	1.65				
G	1.15	1.25				
Н	0.55	0.65				
- 1	2.50	2.60				
J	3.00	3.20				
K	1.10	1.20				
L	0.55	0.65				
M	4.40	4.60				
N	1.15	1.25				
0	3.35	3.45				
Р	2.65	2.75				
Q	3.15	3.25				
R	3.60	3.80				

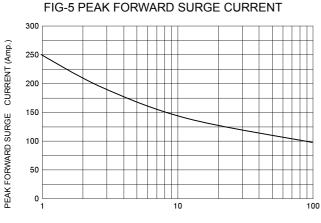












NUMBER OF CYCLES AT 60 Hz



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