

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.

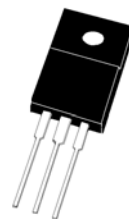
Features

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 150°C 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

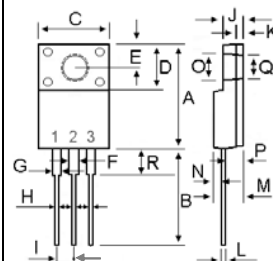


Schottky Barrier RECTIFIERS

**10 AMPERES
30-60 VOLTS**



ITO-220AB



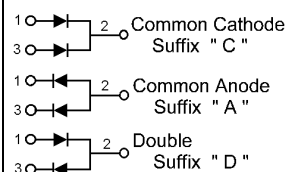
MAXIMUM RATINGS

Characteristic	Symbol	SRF10						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	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 doode) Total Device (Rated V_R , $T_C=125^\circ\text{C}$)	$I_{F(AV)}$	5.0 10						A
Peak Repetitive Forward Current (Rate V_R , Square Wave, 20kHz)	I_{FM}	10						A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I_{FSM}	125						A
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-65 to +150						°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SRF10						Unit
		30	30	40	45	50	60	
Maximum Instantaneous Forward Voltage ($I_F = 5$ Amp $T_C = 25^\circ\text{C}$) ($I_F = 5$ Amp $T_C = 100^\circ\text{C}$)	V_F	0.55 0.47						V
Typical Thermal Resistance junction to case	$R_{\theta j-c}$	4.2						°C/w
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^\circ\text{C}$) (Rated DC Voltage, $T_C = 125^\circ\text{C}$)	I_R	0.5 20						mA

DIM	MILLIMETERS	
	MIN	MAX
A	14.80	16.1
B	12.65	13.8
C	9.9	10.36
D	4.6	6.8
E	2.5	3.5
F	1.00	1.45
G	1.00	1.45
H	0.3	0.9
I	2.3	2.7
J	2.34	3.3
K	0.55	1.30
L	0.36	0.80
M	4.2	4.9
N	1.1	1.8
O	2.9	3.5
P	2.5	3.15
Q	2.9	3.5
R	3.1	3.8



SRF1030 Thru SRF1060

