

Schottky Barrier 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
- *ESD: 8KV(Min.) Human-Body Model
- *Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

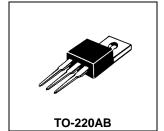
Characteristic	Symbol	SE10C60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectifier Forward Current (Per diode) Total Device (Rated V_R)	$I_{F(AV)}$	5 10	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 half-ware, single phase, 60Hz)	I _{FSM}	125	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}$ C

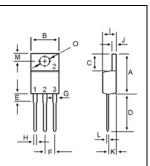
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 5 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 5 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.65 0.56	0.70	V	
Typical Thermal Resistance junction to case	$R_{\theta jc}$		4.2		°C/w	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R		0.01 8	0.5 	mA	

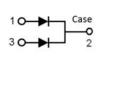
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 60 VOLTS

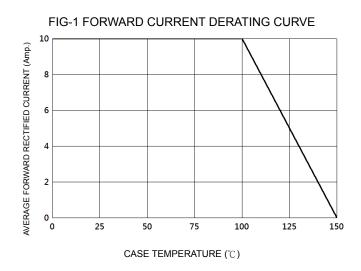


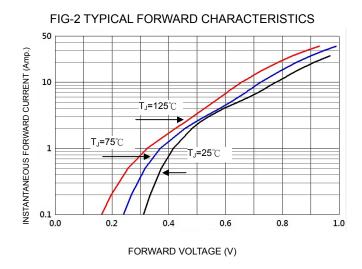


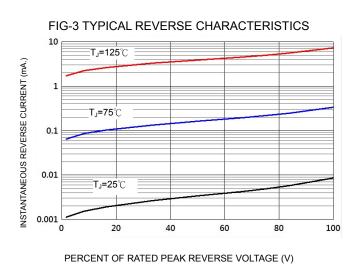
DIM	MILLIMETERS		
Dilvi	MIN	MAX	
Α	14.68	16.00	
В	9.78	10.42	
С	5.02	6.60	
D	13.00	14.62	
E	3.10	4.19	
F	2.41	2.67	
G	1.10	1.67	
Н	0.69	1.01	
- 1	4.22	4.98	
J	1.14	1.40	
K	2.20	3.30	
L	0.28	0.61	
M	2.48	3.00	
0	3.50	4.00	

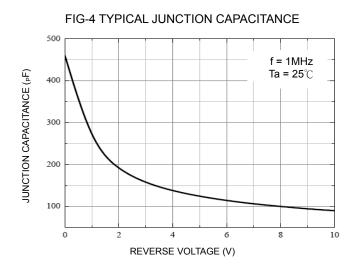


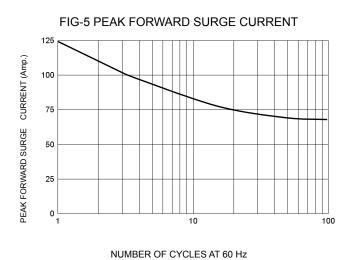














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