

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 Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

Characteristic	Symbol	SE20D100C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	٧
Average Rectifier Forward Current $$ (per diode) Total Device (Rated V_R)	I _{F(AV)}	10 20	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	225	А
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150	$^{\circ}$

THERMAL RESISTANCES

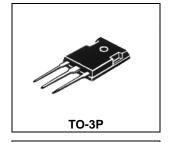
Typical Thermal Resistance junction to case	$R_{ heta jc}$	1.4	°C/w
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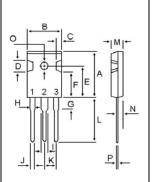
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 10 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.78 0.64	0.85 	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R		0.002	0.2	mA

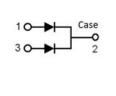
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 100 VOLTS

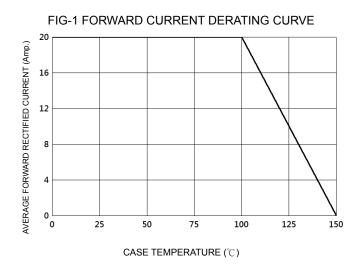


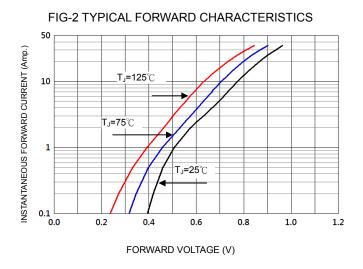


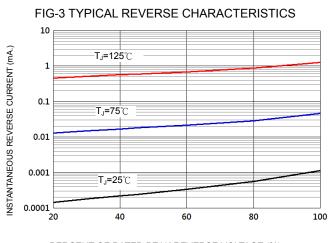
DIM	MILLIMETERS		
	MIN	MAX	
Α	20.80	21.80	
В	15.38	16.20	
С	1.90	2.70	
D	5.10	6.10	
Е	14.81	15.22	
F	11.72	12.84	
G	3.75	4.35	
Н	1.90	2.30	
- 1	2.90	3.30	
J	1.00	1.40	
K	5.26	5.66	
L	19.50	20.50	
M	4.68	5.36	
N	2.40	2.80	
О	3.25	3.65	
Р	0.48	0.72	

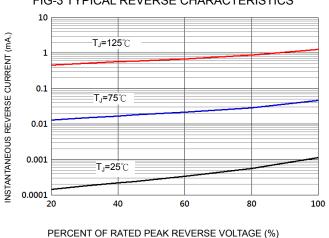


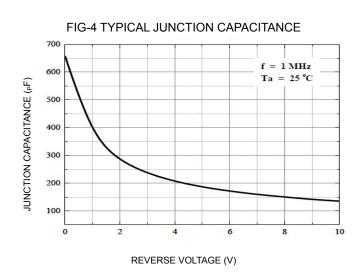


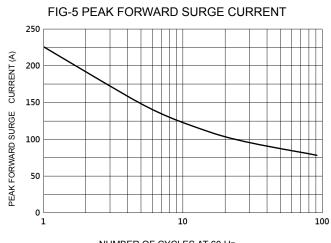














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