

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 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
- * Ph free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

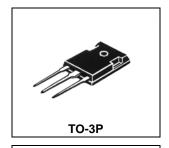
Characteristic	Symbol	S30D200C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100°C	I _{F(AV)}	15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	250	А
Operating and Storage Junction Temperature Range	T_J,T_stg	-65 to +150	$^{\circ}$ C

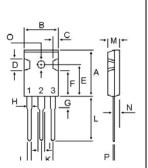
ELECTRICAL CHARACTERISTICS

ELEGINIONE CHARACTERIOTICS						
Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 15 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.86 0.72	0.95	٧	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		0.1 0.5	200	uA mA	

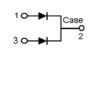
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 200 VOLTS

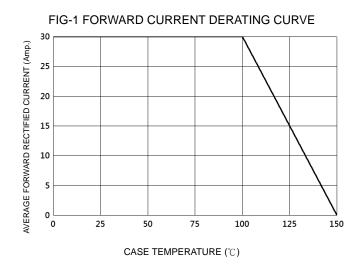


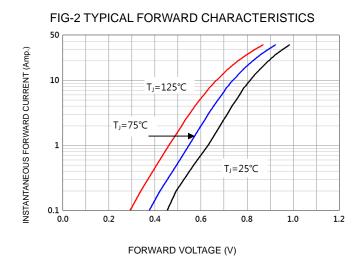


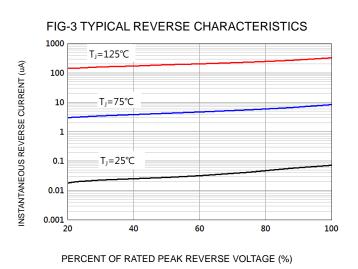
	MILLIMETERS		
DIM			
	MIN	MAX	
Α	20.80	21.80	
В	15.38	16.20	
С	1.90	2.70	
D	5.10	6.10	
E	14.81	15.22	
F	11.72	12.84	
G	3.75	4.35	
Н	1.90	2.30	
- 1	2.90	3.30	
J	1.00	1.40	
K	5.26	5.66	
L	19.50	20.50	
M	4.68	5.36	
N	2.40	2.80	
0	3.25	3.65	
Р	0.48	0.72	

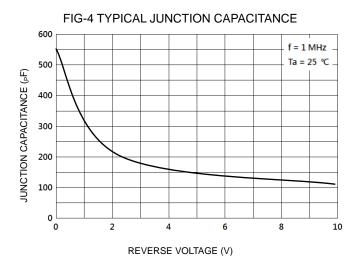


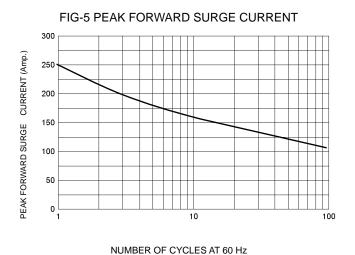














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