

Surface Mount Schottky Barrier rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier meta. 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, in surface mount applications where compact size and weight are critical to the system.

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
- * Moisture Sensitivity Level: MSL-1
- *Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

Characteristic	Symbol	SR320	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	Io	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	75	Α
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150	$^{\circ}$

ELECTRICAL CHARACTERISTICS

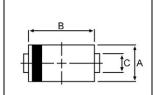
ELECTRICAL CHARACTERISTICS						
Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 3 \text{ Amp}$, $T_C = 25^{\circ}C$) ($I_F = 3 \text{ Amp}$, $T_C = 125^{\circ}C$)	V _F		0.80 0.65	0.95 	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	-	0.1 0.2	10 	uA mA	
Maximum Thermal Resistance Junction to case	R _{θJC}		55		°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P		150		₽F	

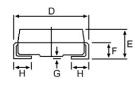
SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 200 VOLTS



DO-214AA(SMB)



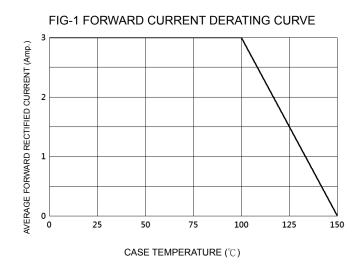


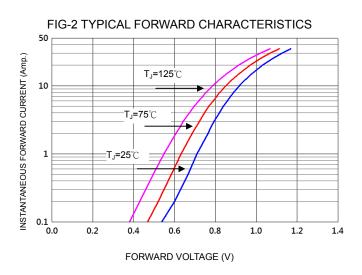
	MILLIMETERS			
DIM	IVIILLIIVIETERS			
	MIN	MAX		
Α	3.30	3.90		
В	4.20	4.60		
С	1.80	2.20		
D	5.10	5.60		
Е	2.00	2.40		
F		1.30		
G		0.22		
Н	0.95	1.35		

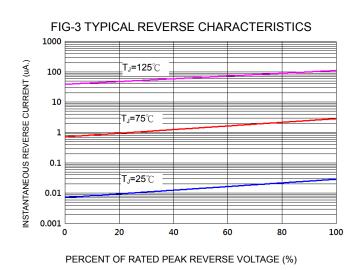
CASE---

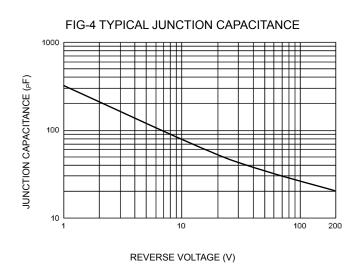
Transfer molded plastic

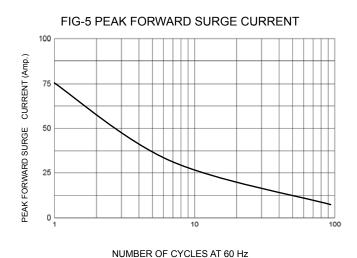
POLARITY---Cathode indicated polarity band













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