

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.

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- * 150 Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- * ESD: 4KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

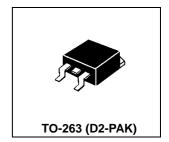
Characteristic Syr	Symbol		Unit			
	Symbol	70	80	90	100	Oilit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	>
RMS Reverse Voltage	VR _(RMS)	49	56	63	70	V
Average Rectifier Forward Current Per diode Total Device (Rated V _R), T _C =125	Io	5 10			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase,60Hz)	I _{FSM}	125			А	
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150				

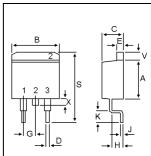
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S10S				Unit
		70	80	90	100	Onit
Maximum Instantaneous Forward Voltage (I _F =5.0 Amp)	V _F	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 20			mA	
Maximum Thermal Resistance Junction to Case	$R_{ heta Jc}$	4.2			°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	300		275		₽F

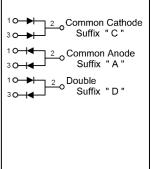
SCHOTTKY BARRIER RECTIFIERS

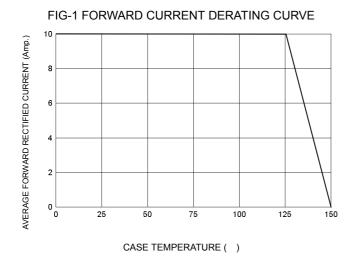
5.0 AMPERES 70-100 VOLTS

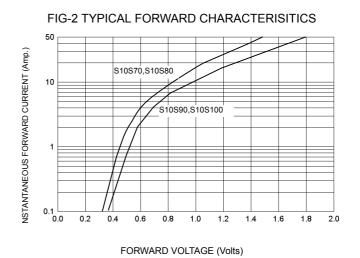


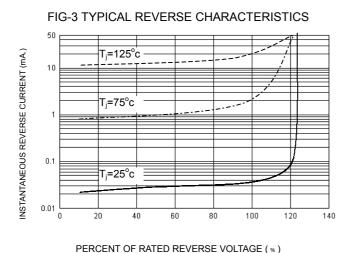


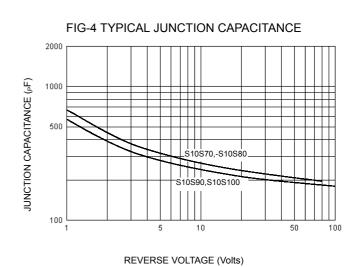
DIM	MILLIMETERS		
	MIN	MAX	
Α	8.12	8.92	
В	9.90	10.30	
С	4.23	4.83	
D	0.51	0.89	
E	1.27	1.53	
G	2.54	BSC	
Н	2.03	2.79	
J	0.31	0.51	
Κ	2.29	2.79	
S	14.60	15.88	
V	1.57	1.83	
Χ		1.40	

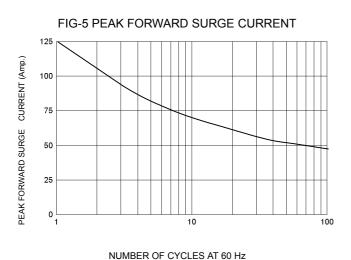














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