

Switchmode Full Plastic Dual Schottky Barrier Power 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 Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory



* In compliance with EU RoHs 2002/95/EC directives

MAXIMUM RATINGS

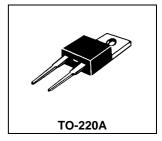
Characteristic	Symbol	S05A				Unit
Characteristic		70	80	90	100	Offic
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	V
Average Rectifier Forward Current	I _{F(AV)}	5.0			А	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	100			А	
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150				

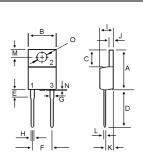
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S05A				l lmi4
		70	80	90	100	Unit
Maximum Instantaneous Forward Voltage ($I_F = 5 \text{ Amp } T_C = 25$) ($I_F = 5 \text{ Amp } T_C = 125$)	V _F	0.75 0.68		0.85 0.72		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	1		.2		mA

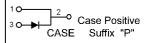
SCHOTTKY BARRIER RECTIFIERS

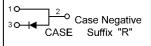
5 AMPERES 70-100 VOLTS

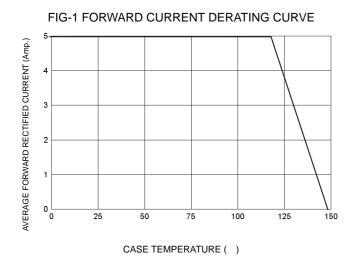


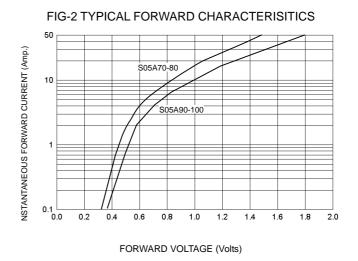


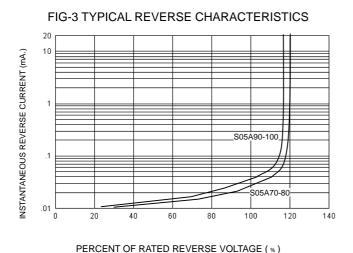
DIM	MILLIMETERS			
DIIVI	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.02	6.52		
D	13.06	14.62		
E	3.57	4.07		
F	4.84	5.32		
G	1.12	1.36		
Н	0.72	0.96		
- 1	4.22	4.98		
J	1.14	1.38		
K	2.20	2.98		
L	0.33	0.55		
M	2.48	2.98		
N		1.00		
0	3.70	3.90		

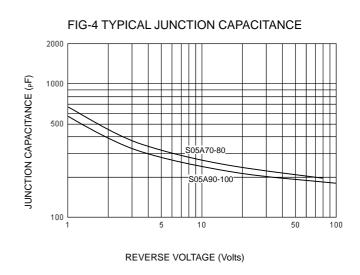


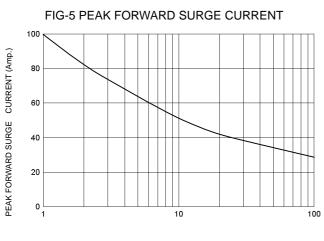














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