

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 Flammability Classification 94V-O



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

MAXIMUM RATINGS

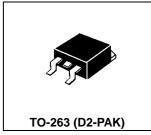
Characteristic	Symbol	S20S				Unit
Characteristic		70	80	90	100	Uilit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	70	80	90	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	56	63	70	V
Average Rectifier Forward Current (per diode) Total Device (Rated V _R),T _C =100	I _{F(AV)}	10 20			А	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20		А		
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200			А	
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150				

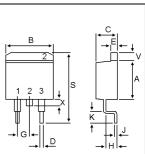
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S20S				l lmi4
		70	80	90	100	Unit
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 125$)	V _F	0.75 0.68		0.85 0.78		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.2 30		mA		

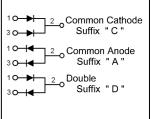
SCHOTTKY BARRIER RECTIFIERS

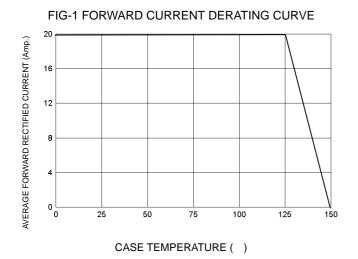
20 AMPERES 70-100 VOLTS

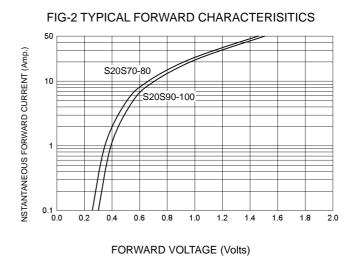


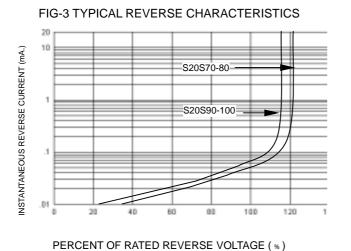


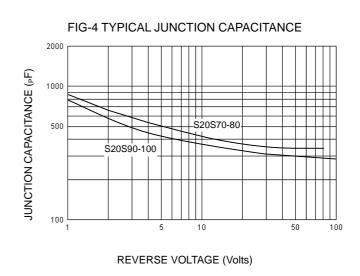
DIM	MILLIMETERS		
	MIN	MAX	
Α	8.12	8.92	
В	9.90	10.30	
С	4.23	4.83	
D	0.51	0.89	
Е	1.27	1.53	
Ð	2.54	BSC	
Ι	2.03	2.79	
Ĺ	0.31	0.51	
K	2.29	2.79	
S	14.60	15.88	
V	1.57	1.83	
Χ		1.40	

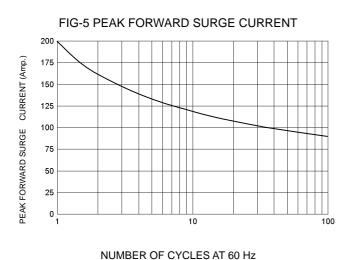














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