MOSPEC

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 Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalance.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Cnduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

Characteristic	Symbol		Unit			
		70	80	90	100]
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	F(AV)		А			
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	I _{FRM}		A			
Non-Repetitive Peak Surge Current (Surge applied at rate load condi- tions halfware,single phase,60Hz)	I _{FSM}		A			
Operating and Storage Junction Temperature Range	T _j , T _{stg}		°C			

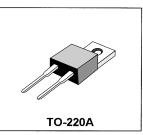
ELECTRICAL CHARACTERISTICS

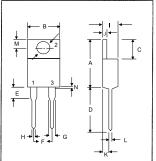
Characteristic	Symbol		Unit			
		70	80	90	100	
Maximum Instantaneous Forward Voltage (I _F =10 Amp, T _c = 25 °C) (I _F =10 Amp, T _c = 100 °C)	V _F	0.75 0.66		0.85 0.74		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 ^o C) (Rated DC Voltage, T _c = 100 ^o C)	l _R	5.0 50				mA

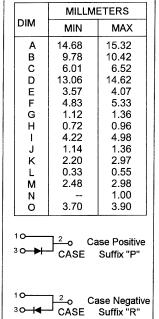
S10A70 Thru S10A100

SCHOTTKY BARRIER RECTIFIERS

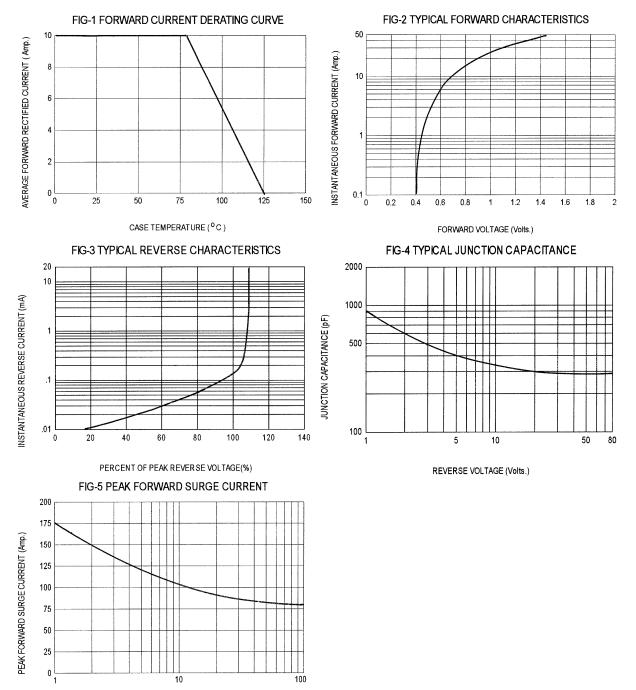
> 10 AMPERES 70 -- 100 VOLTS







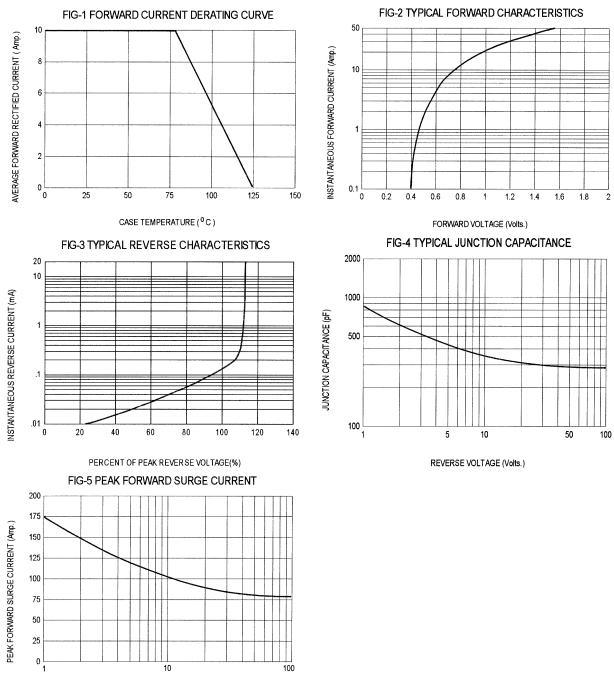
S10A70, S10A80



NUMBER OF CYCLES AT 60 Hz

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S10A90, S10A100



NUMBER OF CYCLES AT 60 Hz

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