

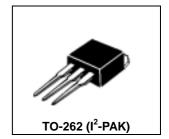
Switchmode Power Rectifiers I² PAK surface Mount Power Package

The **I**² **PAK** Power rectifier employs the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art devices have the following 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

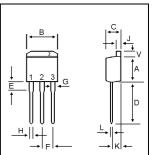
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 70-100 VOLTS

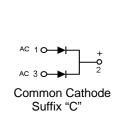


MAXIMUM RATINGS

Oh ann at a sinti-	Symbol	S20S				1111
Characteristic		70CR	80CR	90CR	100CR	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	٧
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	٧
Average Rectifier Forward Current 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 half-ware, single phase, 60Hz)	I _{FSM}	200				Α
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +150				



DIM	MILLIMETERS			
ווועו	MIN	MAX		
Α	8.12	9.00		
В	9.78	10.42		
С	4.22	4.98		
D	13.06	14.62		
E	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
Н	0.72	0.96		
J	1.14	1.38		
K	2.20	2.98		
L	0.33	0.55		
V	1.57	1.83		



ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	\$20 \$				Unit
Characteristic		70CR	80CR	90CR	100CR	Offic
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 100$)	V _F	0.75 0.68		0.80 0.70		>
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R			.5 0		mA

S20S70CR Thru S20S100CR



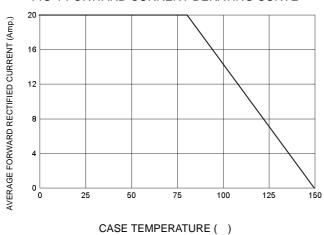
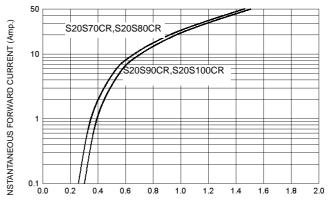
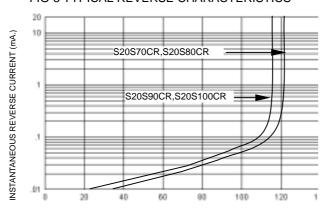


FIG-2 TYPICAL FORWARD CHARACTERISITICS



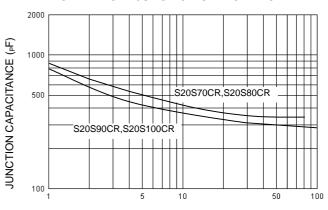
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



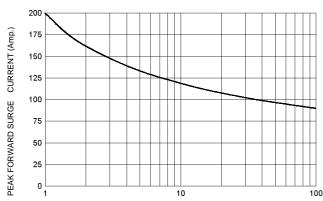
PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)





NUMBER OF CYCLES AT 60 Hz



Notice

MOSPEC reserves the rights to make changes of the content herein the document anytime without notification. MOSPEC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Please refer to MOSPEC website for the last document.

MOSPEC disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially incurred.

Application shown on the herein document are examples of standard use and operation. Customers are responsible for comprehending suitable use in particular applications. MOSPEC makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by MOSPEC for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of MOSPEC or others.

These MOSPEC products are intended for usage in general electronic equipment. Please make sure to consult with MOSPEC before you use these MOSPEC products in equipment which require specialized quality and/or reliability, and in equipment which could have major impact to the welfare of human life (atomic energy control, aeronautics, traffic control, combustion control, safety devices etc.)