

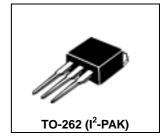
Switchmode Power Rectifiers I² PAK surface Mount Power Package

The I² 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

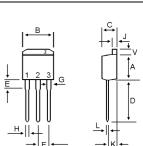
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 70-100 VOLTS

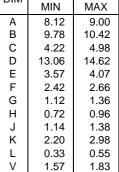


MAXIMUM RATINGS

Characteristic	Symbol	S30S				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	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	V
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100	I _{F(AV)}	15 30				А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	250			А	
Operating and Storage Junction Temperature Range	T_J,T_STG	-65 to +150				

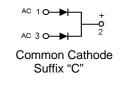


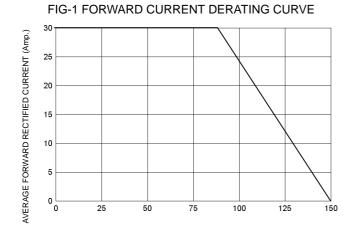
DIM	MILLIMETERS				
	MIN	MAX			
Α	8.12	9.00			
В	9.78	10.42			
С	4.22	4.98			
D	13.06	14.62			
E	3.57	4.07			
F	2.42	2.66			
G	1.12	1.36			
Н	0.72	0.96			
J	1.14	1.38			
K	2.20	2.98			
L	0.33	0.55			
V	1.57	1.83			

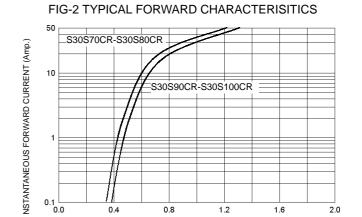


FLECTRIAL CHARACTERISTICS

Characteristic	Symbol	S30S				11
Characteristic		70CR	80CR	90CR	100CR	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp T}_C = 25$) ($I_F = 15 \text{ Amp T}_C = 100$)	V _F	0.75 0.68		0.80 0.70		٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 30		_		mA

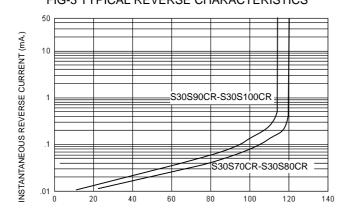






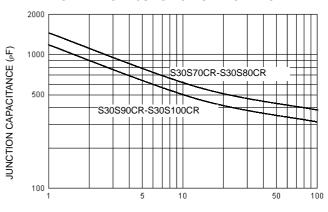


CASE TEMPERATURE ()





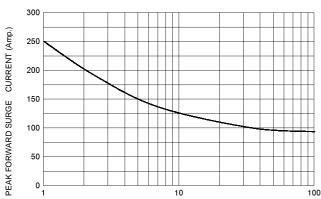
FORWARD VOLTAGE (Volts)



REVERSE VOLTAGE (Volts)

PERCENT OF RATED REVERSE VOLTAGE (%)





NUMBER OF CYCLES AT 60 Hz