

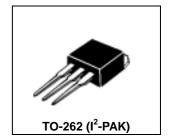
Switchmode Power Rectifiers I² PAK surface Mount Power Package

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

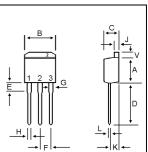
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 35-60 VOLTS

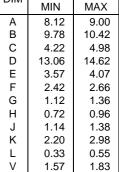


MAXIMUM RATINGS

	Symbol	S20S						Unit
Characteristic		30CR	35CR	40CR	45CR	50CR	60CR	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	٧
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100	I _{F(AV)}	10 20					Α	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	T _{FM}	20				Α		
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	200				А		
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150						

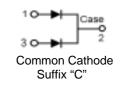


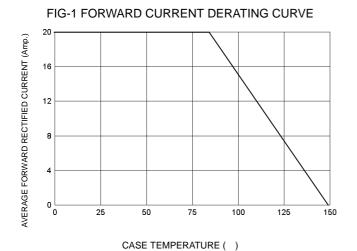
DIM	MILLIMETERS					
DIIVI	MIN	MAX				
Α	8.12	9.00				
В	9.78	10.42				
С	4.22	4.98				
D	13.06	14.62				
E	3.57	4.07				
F	2.42	2.66				
G	1.12	1.36				
Н	0.72	0.96				
J	1.14	1.38				
K	2.20	2.98				
L	0.33	0.55				
V	1.57	1.83				

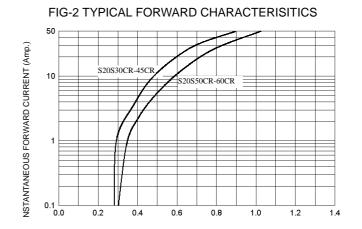


ELECTRIAL CHARACTERISTICS

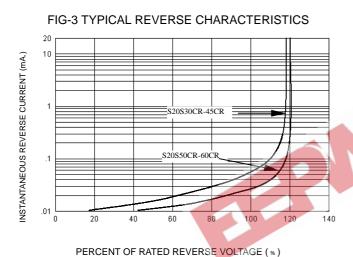
Characteristic	Symbol	S20S					Unit
Characteristic		30CR	35CR	40CR	45CR	50CR	60CR
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 125$)	V _F	0.55 0.48		0.65 0.57		V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 30					mA

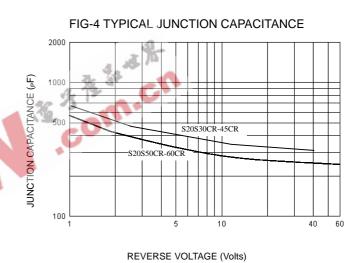


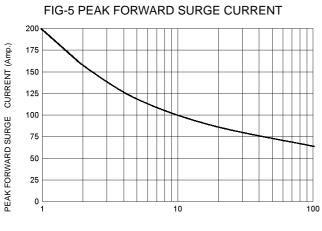




FORWARD VOLTAGE (Volts)







NUMBER OF CYCLES AT 60 Hz