

SWITCHMODE POWER RECTIFIERS D2 PAK SURFACE MOUNT POWER PACKAGE

The D2 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 Surage Capacity
- * Guarantee Reverse Avalance
- * Guard-Ring for Stress Protection
- * Lower Power Loss & High efficiency
- * 125 °C Operating Junction Temperature
- * Lower Stored Charge Majority Carrier Conduction
- * Similar Size to the industry Standard TO-220 Pakage
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 70 -- 100 VOLTS

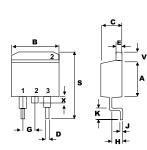


MAXIMUM RATINGS

Characteristic	Symbol		Unit			
		70	80	90	100	1
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°C	I _{F(AV)}	5.0 10			Α	
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	I _{FM}	10			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load condi- tions halfware, single phase, 60Hz)	 FSM	125			Α	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 65 to + 125			°C	

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S10S				Unit
		70	80	90	100	
Maximum Instantaneous Forward Voltage (I_F =5.0 Amp, T_c = 25 °C)	V _F	0.	75	0.	85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 125$ °C)	I _R	1.0 30			mA	



	MILLMETERS			
DIM	MIN	MAX		
Α	8.12	9.00		
В	9.70	10.30		
С	4.23	4.90		
D	0.51	1.15		
E	1.10	1.50		
G	2.54 BSC			
Н	2.03	2.79		
J	0.30	0.50		
K	2.29	2.90		
S	14.60	16.00		
V	1.40	1.83		
Х		1.70		

