

SWITCHMODE POWER RECTIFIERS D2PAK 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

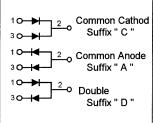
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 30-60 VOLTS



TO-263 (D2-PAK)

MILLMETERS						
MIN	MAX					
8.12	9.00					
9.70	10.30					
4.23	4.90					
0.51	1.15					
1.10	1.50					
2.54 BS	BSC					
2.03	2.79					
0.30	0.50					
2.29	2.90					
14.60	16.00					
1.40	1.83					
	1.70					
	MIN 8.12 9.70 4.23 0.51 1.10 2.54 BS 2.03 0.30 2.29 14.60					



MAXIMUM RATINGS

Characteristic	Symbol	S10S						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	٧
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°C	I _{F(AV)}	5.0 10					Α	
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	İ _{FM}	10					Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load condi- tions halfware,single phase,60Hz)	 FSM	125						А
Operating and Storage Junction Temperature Range	T_{j} , T_{stg}	- 65 to + 125					°C	

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S10S						Unit
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage (I _F =5.0 Amp, T _c = 25 °C)	V _F	0.55			0.55 0.65			V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 100$ °C)	I _R	5.0 50					mA	

