

SWITCHMODE POWER RECTIFIERS D PAK SURFACE MOUNT POWER PACKAGE

The D 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-251 Pakage
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- * Marking: S1630T-S1645T
- * Weight: 0.011 ounce, 0.295 gram

MAXIMUM RATINGS

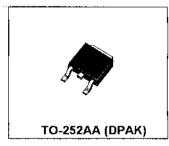
Characteristic	Symbol	SBD16				Unit
		30CT	35CT	40CT	45CT	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	v
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	٧
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100°C	I _{F(AV)}	8.0 16			Α	
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	··I _{FM}	16			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load condi- tions halfware, single phase, 60Hz)	I _{FSM}	150			А	
Operating and Storage Junction Temperature Range	T _J , T _{stg}	- 65 to + 125			°C	

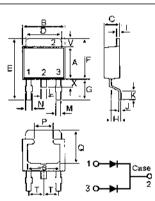
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SBD16				Unit
		30CT	35CT	40CT	45CT	
Maximum Instantaneous Forward Voltage	V _F					٧
(I _F =8.0 Amp, T _c = 25 °C)			0.	55		
Maximum Instantaneous Reverse Current	I _R					
(Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 100 °C)				.0 .0		mA mA

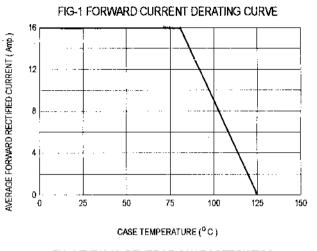
SCHOTTKY BARRIER RECTIFIERS

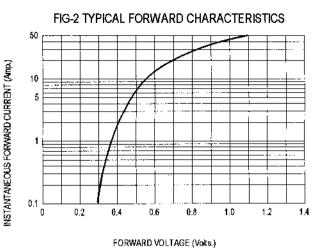
16 AMPERES 30-45 VOLTS

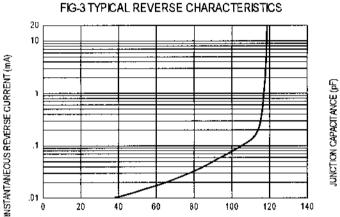


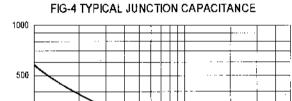


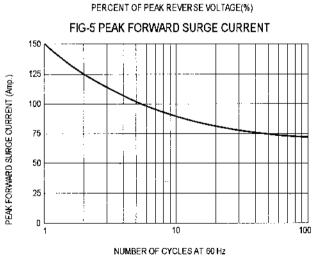
	MILLMETERS			
DIM	MIN	MAX		
Α	5.40	5.60		
В	6.30	6.70		
C	2.20	2.40		
D	5.20	5.50		
E	9.00	10.00		
F	6.60	7.00		
G	2.40	3.00		
н	0.90	1.50		
1	0.45	0.55		
J	0.45	0.60		
K	0.90	1,50		
L	0.70	0.90		
М	0.50	0.70		
N	0.60	0.90		
P	2.70	3.10		
Q	5.00	5.40		
s	4.80	5.20		
Т		2.30		
V	1.20	1.40		
Х	08.0	1.20		











REVERSE VOLTAGE (Volts.)

10

40 50

100



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