SBD1030CT thru SBD1045CT

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 Surge Capacity
- * Guarantee Reverse Avalanche
- * Guard-Ring for Stress Protection
- * Lower Power Loss & High efficiency
- * 125 Operating Junction Temperature
- * Lower Stored Charge Majority Carrier Conduction
- * Similar Size to the industry Standard TO-251 Package
- * Plastic Material used Carries Underwriters Laboratory
- Plastic Material used Carries Underwriters Laboratory
 Flammability Classification 94V-O
- * Marking: S1030T-S1045T
- * Weight: 0.011 ounce, 0.295 gram

MAXIMUM RATINGS

Characteristic	Symbol	SBD				Unit
		1030CT	1035CT	1040CT	1045CT	Uilit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		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	I _{F(AV)}	5.0 10			А	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	125			Α	
Operating and Storage Junction Temperature Range	T_J , T_{stg}	-65 to +125				

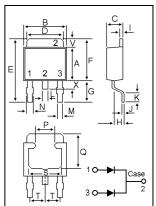
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SBD				l lm¦4
		1030CT	1035CT	1040CT	1045CT	Unit
Maximum Instantaneous Forward Voltage ($I_F = 5 \text{ Amp}, T_C = 25$)	V _F	0.55			V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	500 5.0		uA mA		

SCHOTTKY BARRIER RECTIFIERS

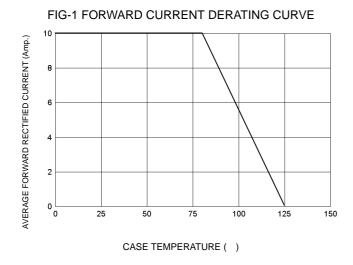
10 AMPERES 30-45 VOLTS

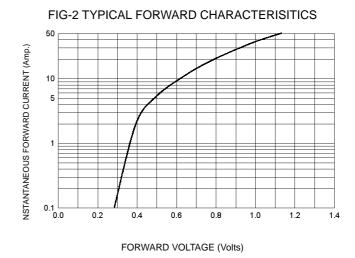


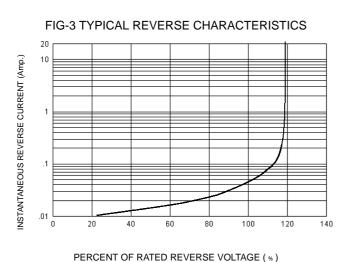


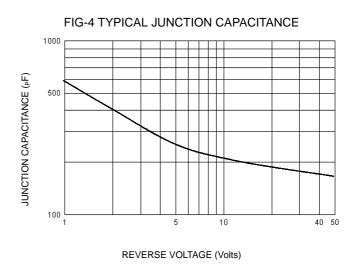
DIM	MILLIMETERS			
DIIVI	MIN	MAX		
Α	5.40	5.60		
В	6.30	6.70		
С	2.20	2.40		
D	5.20	5.50		
E	9.00	10.00		
F	6.60	7.00		
G	2.40	3.00		
Н	0.90	1.50		
- 1	0.45	0.55		
J	0.45	0.60		
K	0.90	1.50		
L	0.70	0.90		
M	0.50	0.70		
Ν	0.60	0.90		
Р	2.70	3.10		
Q	5.00	5.40		
S	4.80	5.20		
Т		2.30		
V	1.20	1.40		
Χ	0.80	1.20		

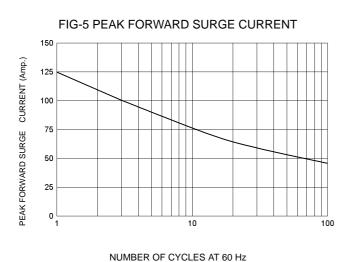
SBD1030CT thru SBD1045CT













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