

肖特基势垒二极管/SCHOTTKY BARRIER DIODE

Switchmode Dual Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The properitary barrier technology allows for reliable operation up to 175 junction temperature. Typical application are in switching Mode Power Supplies such as adaptators, DC/DC convertes,freewheeling and polarity protection diodes.

Features

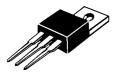
- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- * 175 Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

Flammability Classification 94V-O

* ESD: 4KV(Min.) Human-Body Model







TO-220

MAXIMUM RATINGS

Characteristic	Symbol	SBR2060CL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	٧
Average Rectifier Forward Current (per diode) Total Device (Rated V_R), T_C =100	I _{F(AV)}	10 20	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	175	Α
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +175	

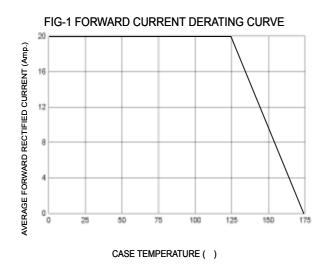
THERMAL RESISTANCES

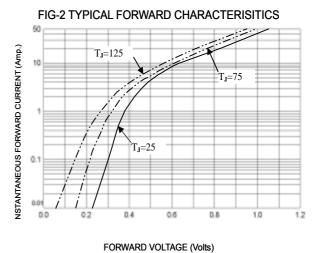
Typical Thermal Resistance junction to case	R _{θ j-c}	3.2	/w
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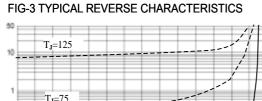
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SBR2060CL		Unit	
Maximum Instantaneous Forward Voltage (per diode)		Min	Тур.	Max.	
$(I_F = 0.1 \text{ Amp T}_C = 25)$	V		0.31	0.35	V
$(I_F = 5.0 \text{ Amp T}_C = 25)$	V_{F}		0.53	0.58	V
$(I_F = 10 \text{ Amp T}_C = 25)$			0.66	0.85	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25)	I_R		0.08	0.1	mA
(Rated DC Voltage, T _C = 125)			15	30	









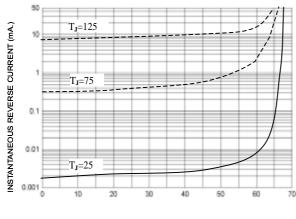
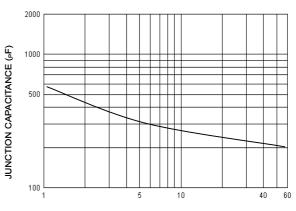
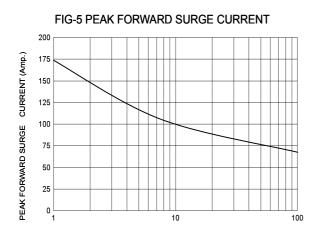


FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

REVERSE VOLTAGE (Volts)



NUMBER OF CYCLES AT 60 Hz

sapcon®

封装说明: (Package description)

DIM	MILLIMETERS		
DIM	MIN	MAX	
A	14. 45	16.00	
В	9. 60	10. 42	
С	5. 02	6. 52	
D	13. 05	14. 62	
Е	3. 57	4.07	
F	2. 39	2.69	
G	1. 10	1.40	
Н	0. 70	0. 96	
I	4. 22	4. 98	
J	1. 14	1.38	
K	2. 20	2.98	
L	0.32	0.55	
M	2.40	3.00	
0	3. 50	4.00	

