

SB2030PT – SB2060PT

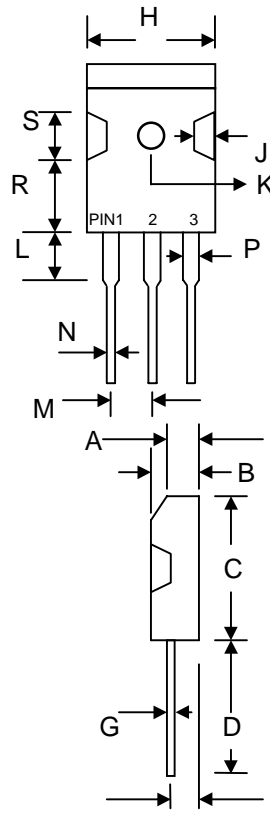
20A SCHOTTKY BARRIER RECTIFIER

Features

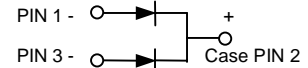
- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: As Marked on Body
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



TO-3P		
Dim	Min	Max
A	3.20	3.50
B	4.59	5.16
C	20.80	21.30
D	19.70	20.20
E	2.10	2.40
G	0.51	0.76
H	15.90	16.40
J	1.70	2.70
K	3.10 Ø	3.30 Ø
L	3.50	4.51
M	5.20	5.70
N	1.12	1.22
P	2.90	3.30
R	11.70	12.80
S	4.30 Typical	
All Dimensions in mm		



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	SB 2030PT	SB 2035PT	SB 2040PT	SB 2045PT	SB 2050PT	SB 2060PT	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	35	40	45	50	60	V
Working Peak Reverse Voltage	V _{VRM}							
DC Blocking Voltage	V _R							
RMS Reverse Voltage	V _{R(RMS)}	21	24.5	28	31.5	35	42	V
Average Rectified Output Current @T _C = 100°C	I _O	20						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250						A
Forward Voltage @I _F = 10A	V _{FM}	0.55				0.75		V
Peak Reverse Current @T _A = 25°C	I _{RM}	1.0						mA
At Rated DC Blocking Voltage @T _A = 100°C		50						
Typical Junction Capacitance (Note 1)	C _j	1100						pF
Typical Thermal Resistance Junction to Case (Note 2)	R _{θJC}	2.5						K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150						°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 2. Thermal resistance junction to case mounted on heatsink.

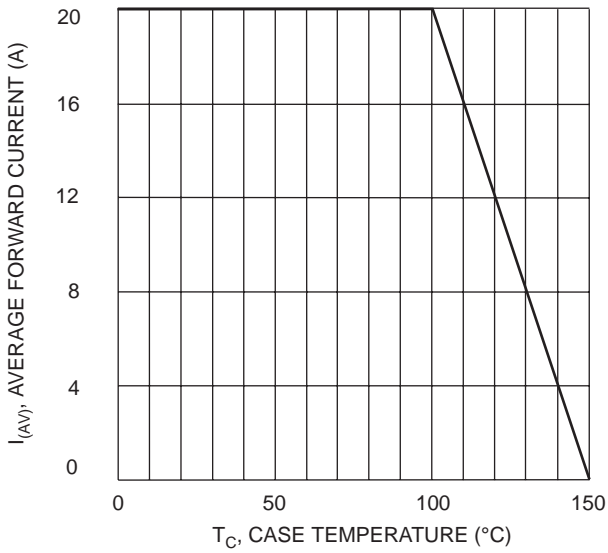


Fig. 1 Forward Current Derating Curve

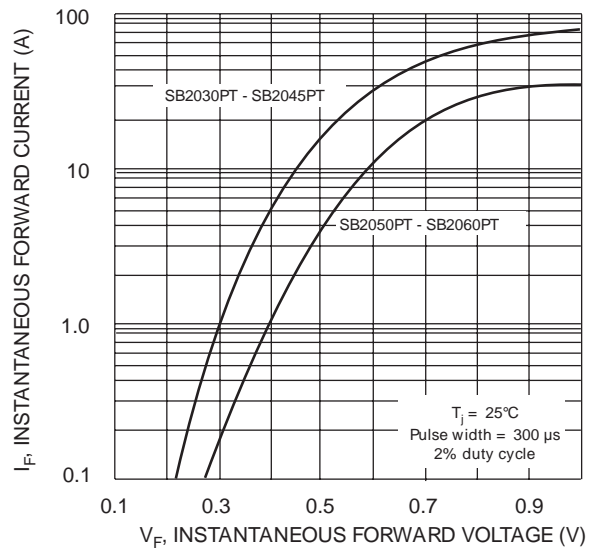


Fig. 2 Typical Forward Characteristics per Element

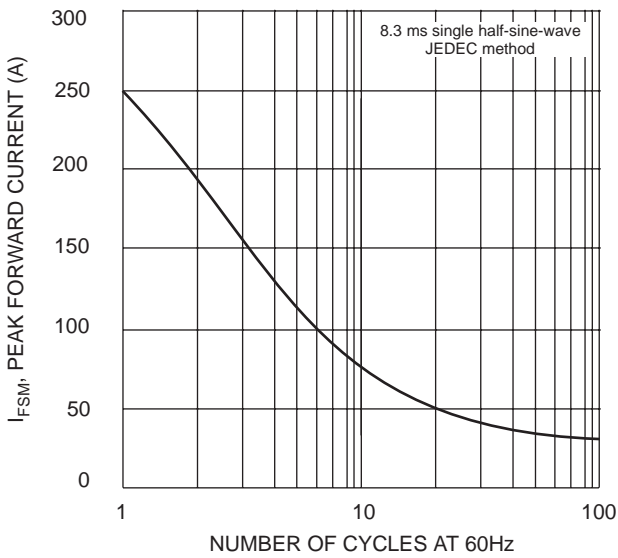


Fig. 3 Maximum Non-Repetitive Surge Current

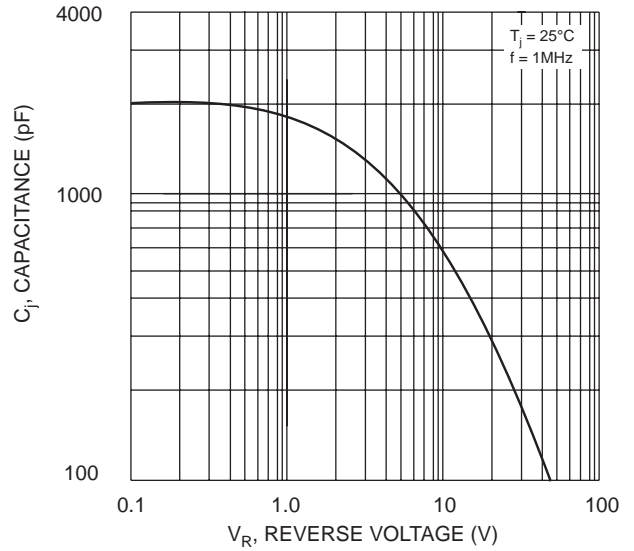


Fig. 4 Typical Junction Capacitance per Element

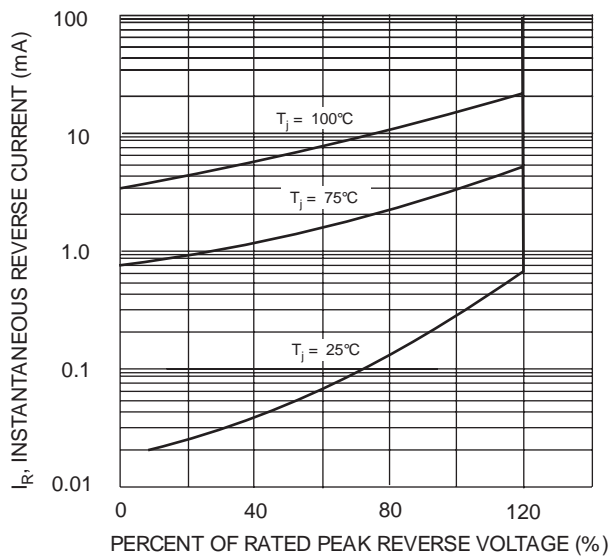


Fig. 5 Typical Reverse Characteristics per Element

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB2030PT	TO-3P	30 Units/Tube
SB2035PT	TO-3P	30 Units/Tube
SB2040PT	TO-3P	30 Units/Tube
SB2045PT	TO-3P	30 Units/Tube
SB2050PT	TO-3P	30 Units/Tube
SB2060PT	TO-3P	30 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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