

SB2520CT - SB25100CT

25A 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: TO-220 Molded Plastic

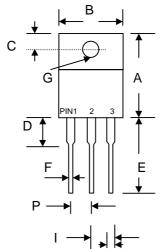
 Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026

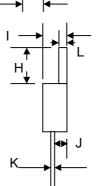
Polarity: As Marked on Body

Weight: 2.24 grams (approx.)

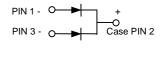
Mounting Position: Any

Marking: Type Number





TO-220					
Dim	Min	Max			
Α	14.9	15.1			
В	_	10.5			
С	2.62	2.87			
D	3.56	4.06			
Е	13.46	14.22			
F	0.68	0.94			
G	3.74 Ø	3.91 Ø			
Н	5.84	6.86			
I	4.44	4.70			
J	2.54	2.79			
K	0.35	0.64			
L	1.14	1.40			
Р	2.41	2.67			
All Dimensions in mm					



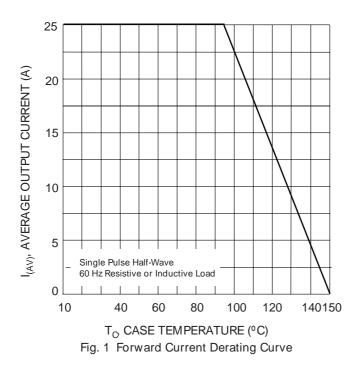
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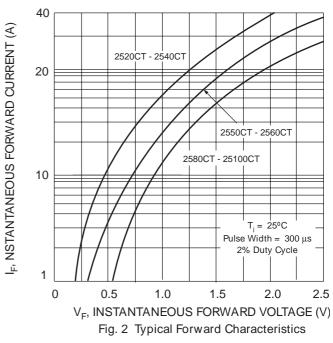
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

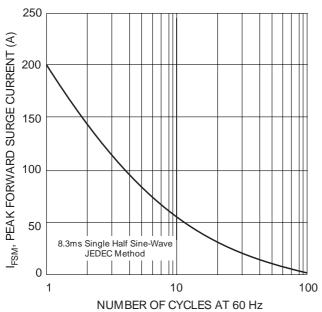
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

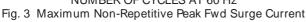
Characteristic	Symbol	SB 2520CT	SB 2530CT	SB 2540CT	SB 2550CT	SB 2560CT	SB 2580CT	SB 25100CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	>
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	٧
Average Rectified Output Current @T _C = 95°C	lo	25					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					А		
Forward Voltage @I _F = 12.5A	VFM	0.55 0.75 0.85		85	٧				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 100					mA		
Typical Junction Capacitance (Note 1)	Cj	1100					pF		
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.









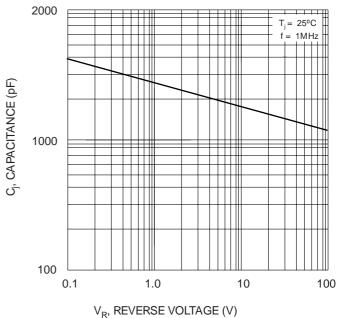


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB2520CT	TO-220	50 Units/Tube
SB2530CT	TO-220	50 Units/Tube
SB2540CT	TO-220	50 Units/Tube
SB2550CT	TO-220	50 Units/Tube
SB2560CT	TO-220	50 Units/Tube
SB2580CT	TO-220	50 Units/Tube
SB25100CT	TO-220	50 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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