Features	
 Ideal for automated placement Ultra low forward voltage drop, low power loss High efficiency operation Low thermal resistance Lead free in compliance with EU RoHS 2011/65/EU directive 	0.419(10.66) 0.387(9.85) 0.156(3.95) 0.147(3.75) 0.147(3.75) 0.000 0.163(4.16) 0.054(1.39) 0.045(1.15) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0
Mechanical Data	0.115(2.92)
 Case: Molded plastic, TO-220AB Terminals: solder plated, solderable per MIL-STD-750,Method 2026 Approx. Weight: 0.067 ounces, 1.89 grams Marking: Part number 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	2 AC ①→ → AC ③→

30 A

TO-220AB

ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Current

Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage	Vrrm	150	V		
Maximum rms voltage	Vrms	105	V		
Maximum dc blocking voltage	Vr	150	V		
	per diode	lf(AV)	15	А	
Maximum average forward rectified current	per device		30		
Peak forward surge current : 8.3ms single ha	Ifsm	250	А		
wave superimposed on rated load per diode		250			
Typical thermal resistance per diode	(Note 1)	$R_{ ext{ hetaJC}}$	2	°C/W	
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Tstg	-55 to +150	°C		

Note : 1. Device mounted on a infinite heatsink , then measured the center of the marking side.



Voltage

SBT30150VCT

150 V



Unit : inch(mm)

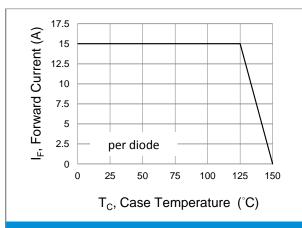




SBT30150VCT

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage per diode	V_{BR}	I _R =0.5mA	Tj=25°C	150	-	-	V
Instantaneous forward voltage per diode	V _F	$I_{F}=1A$ $I_{F}=5A$ $I_{F}=15A$ $I_{F}=1A$ $I_{F}=5A$	TJ=25°C TJ=125°C		0.49 0.68 0.79 0.4 0.56	- - 0.84 - -	V V
Reverse current per diode		V _R =120V	TJ=25°C	-	2.6	-	μA
	Ι _R	V _R =150V	TJ=25°C TJ=125°C	-	- 3.1	60 -	μA mA





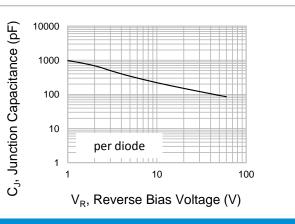
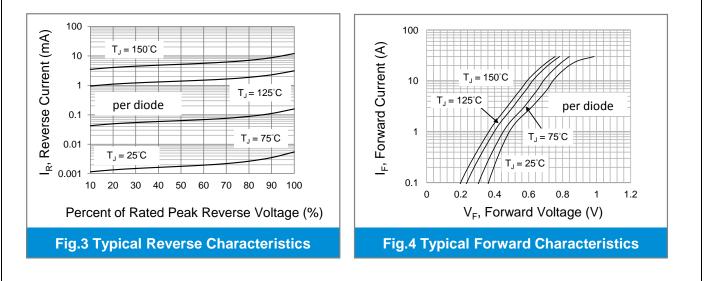


Fig.2 Typical Junction Capacitance







SBT30150VCT

Part No_packing code_Version

SBT30150VCT_T0_00001 SBT30150VCT_T0_10001

For example :

RB500V-40_R2_00001



Version code means HF

Serial number

No.

Packing size code means 13" Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	x			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



SBT30150VCT

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.