



#### **UITRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE 60 Volt CURRENT 15 Ampere

#### **FEATURES**

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

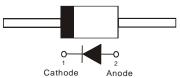
#### **MECHANICAL DATA**

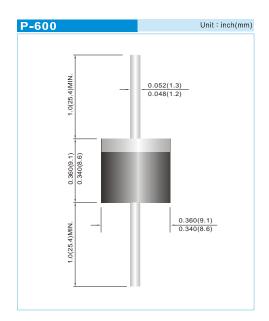
Case: P-600 molded plastic

Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Weight: 0.0719 ounces, 2.04 grams.





#### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	60	V
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current		l F(AV)	15	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		IFSM	300	А
Typical thermal resistance	(Note 1)	R⊕ja R⊕jl	13 4	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

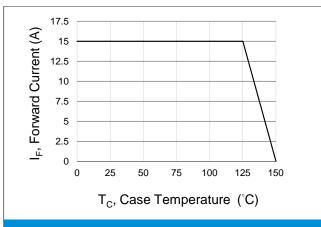
### ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I R=0.5mA		60	-	-	V
Instantaneous forward voltage	VF	F=5A   F=10A   F=15A	TJ=25°C	- - -	0.41 0.45 0.48	- - 0.53	V
		I F=5A I F=10A	TJ=125°C	- -	0.3 0.37	- -	V
Reverse current		VR=42V		-	6	-	μА
	IR	VR=60V	TJ=25°C TJ=125°C	-	- 10	50 -	μA mA

Note: 1. The testing condition of the thermal resistance (junction to ambient and junction to lead) is based on 0 mm lead length between two 10cm x 10cm x 1mm copper pad heatsinks.







**Fig.1 Forward Current Derating Curve** 

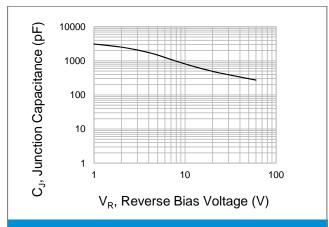


Fig.2 Typical Junction Capacitance

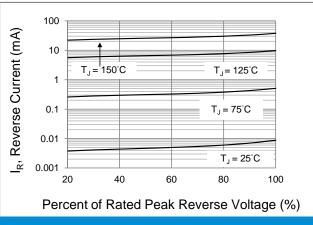
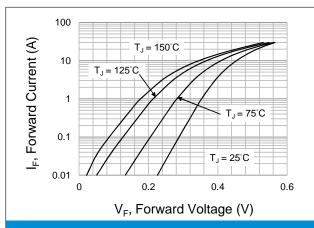


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 





### Part No\_packing code\_Version

SBT1560VS\_AY\_00001

SBT1560VS\_AY\_10001

SBT1560VS\_B0\_00001

SBT1560VS\_B0\_10001

SBT1560VS\_R2\_00001

SBT1560VS\_R2\_10001

## For example:



Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





## **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.