

# SBT1545LS

#### UITRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

## CURRENT 15 Amperes

#### FEATURES

• Ultra Low forward voltage drop, low power losses

45 Volts

- High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

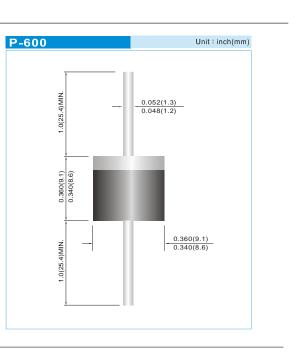
#### **MECHANICAL DATA**

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)

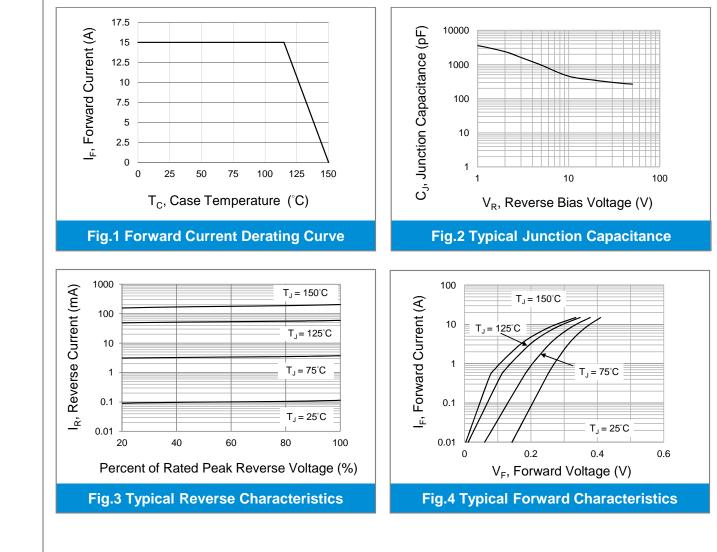
PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	45	V
Maximum rms voltage		Vrms	32	V
Maximum dc blocking voltage		VR	45	V
Maximum average forward rectified current		l f(AV)	15	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	275	А
Typical thermal resistance	(Note 1)	R⊚ja R⊕jl	30 12	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note : 1. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375" (9.5mm) P.C.B. mounted

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	I F=5A I F=10A I F=15A	Tj=25°C	- - -	0.34 0.38 0.41	- - 0.46	v
		I	TJ=125°C	- - -	0.23 0.3 0.35	- - -	v
Reverse current	Ir	Vr=36V		-	105	-	μΑ
		Vr=45V	TJ=25°C TJ=125°C	-	- 60	310 -	μA mA







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### Part No\_packing code\_Version

SBT1545LS\_AY\_00001 SBT1545LS\_AY\_10001 SBT1545LS\_B0\_00001 SBT1545LS\_B0\_10001 SBT1545LS\_R2\_00001 SBT1545LS\_R2\_10001

### For example :

### RB500V-40\_R2\_00001



Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

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					





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