



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

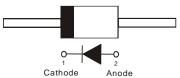
MECHANICAL DATA

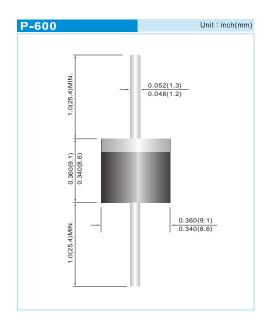
Case: P-600 molded plastic

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	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	IFSM	300	А
Typical thermal resistance (Note	e 1) Roja Rojl	13 4	°C/W
Operating junction temperature range	Tu	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

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

PARAMETER	SYMBOL	TEST CO	ONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I R=0.5mA		60	-	-	V
Instantaneous forward voltage	VF	I F=5A I F=10A I 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
		VR=42V		-	6	-	μА
Reverse current	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.

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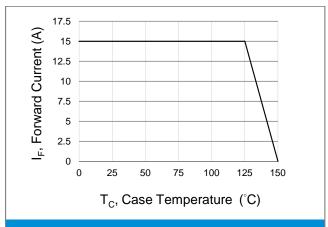


Fig.1 Forward Current Derating Curve

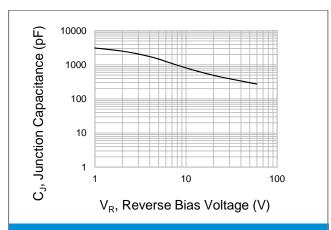


Fig.2 Typical Junction Capacitance

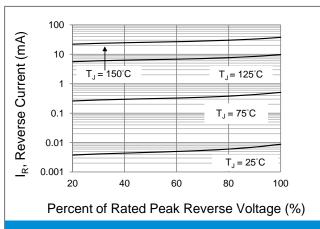


Fig.3 Typical Reverse Characteristics

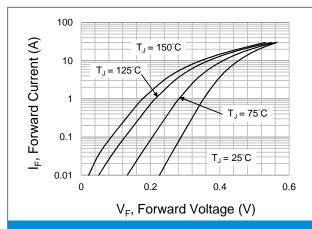


Fig.4 Typical Forward Characteristics

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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 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			

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