



UITRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volts CURRENT 10 Amperes

FEATURES

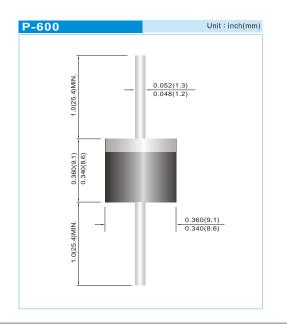
- Ultra Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

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)	10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		İFSM	275	А
Typical thermal resistance	(Note 1)	R⊕ja R⊕jl	30 15	°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 CC	NDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		45	-	-	V
Instantaneous forward voltage Reverse current	VF Ir	I F=1A I F=5A I F=10A I F=1A I F=5A	T _J =25°C	- - -	0.34 0.41 0.45 0.21 0.3	- - 0.51 -	V
		I F=10A VR=36V	13-120 0	-	0.37	-	μА
		VR=45V	TJ=25°C TJ=125°C	-	- 8	50 -	μA mA





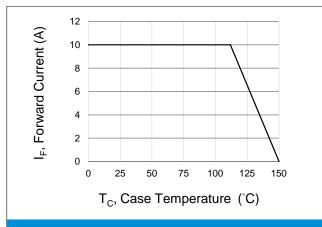


Fig.1 Forward Current Derating Curve

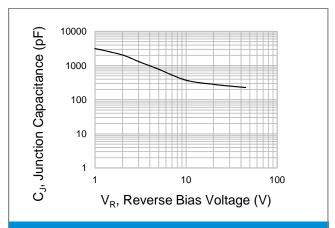


Fig.2 Typical Junction Capacitance

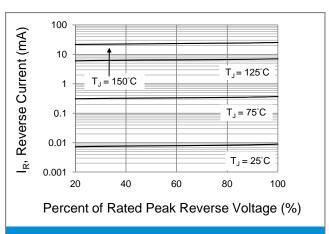


Fig.3 Typical Reverse Characteristics

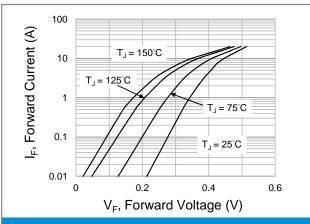


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBT1045LS_AY_00001

SBT1045LS_AY_10001

SBT1045LS_B0_00001

SBT1045LS_B0_10001

SBT1045LS_R2_00001

SBT1045LS_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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