



SCHOTTKY RECTIFIER

VOLTAGE 45 Volt CURRENT 15 Ampere

FEATURES

- Low power loss
- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

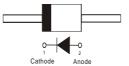
Case: P-600 molded plastic

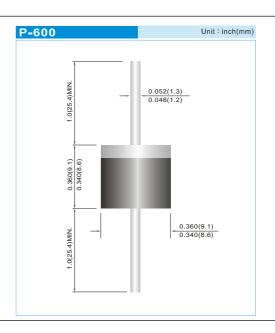
Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Marking: Part number

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	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	275	А
Typical thermal resistance	(Note 1)	Røjl	20	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C
Junction temperature in DC forward current without reverse bias, $t \le 1\ h$	(Note 2)	TJ	200	°C

Note: 1. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm x 0.5mm copper pad

2. Meets the bypass diode thermal test required by IEC 61215 ed. 2

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	TJ=25°C	45	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=15A	TJ=25°C	- - -	0.31 0.37 0.43	- - 0.5	V
		I F=1A I F=5A	T _J =125°C	-	0.18 0.26		V
Reverse current	l R	VR=36V	TJ=25°C	-	80	-	μΑ
		VR=45V	TJ=25°C TJ=125°C	-	- 55	200	μA mA





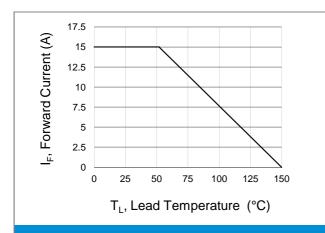


Fig.1 Forward Current Derating Curve

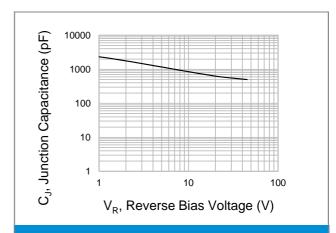


Fig.2 Typical Junction Capacitance

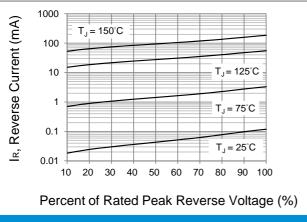


Fig.3 Typical Reverse Characteristics

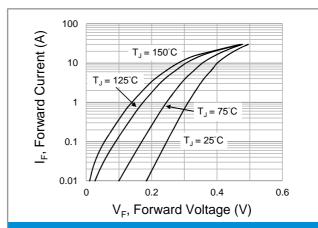


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SB1545S_AY_00001

SB1545S_AY_10001

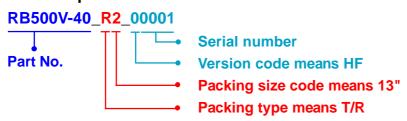
SB1545S_B0_00001

SB1545S_B0_10001

SB1545S_R2_00001

SB1545S_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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