



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

150 V

Current

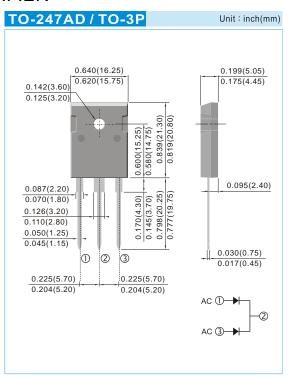
30 A

Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Case: Molded plastic, TO-3P
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.225 ounces, 6.367 grams
- Marking: Part number



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	150	V	
Maximum rms voltage		VRMS	105	V	
Maximum dc blocking voltage		VR	150	V	
Maximum average forward rectified current	per diode		15	А	
	per device	I F(AV)	30		
Peak forward surge current : 8.3ms single ha	IFSM	050	А		
wave superimposed on rated load per diode		250			
Typical thermal resistance per diode (Note 1)		$R_{\theta JC}$	2	°C/W	
Operating junction temperature range		ТJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.





Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage per diode	V_{BR}	I _R =0.5mA	TJ=25°C	150	-	-	V
Instantaneous forward voltage per diode	V _F	$I_{F}=1A$ $I_{F}=5A$ $I_{F}=15A$ $I_{F}=1A$ $I_{F}=5A$	TJ=25°C TJ=125°C		0.49 0.68 0.79 0.39 0.55	- - 0.84 - -	V
Reverse current per diode	I _R	V _R =120V	T _J =25°C	-	2	-	μА
	'R	V _R =150V	T _J =25°C T _J =125°C	-	- 4.5	60 -	μA mA

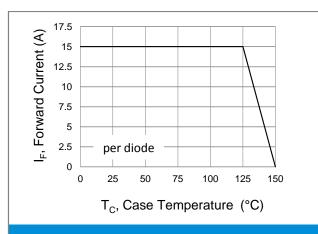


Fig.1 Forward Current Derating Curve

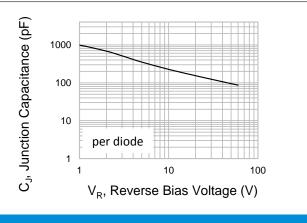
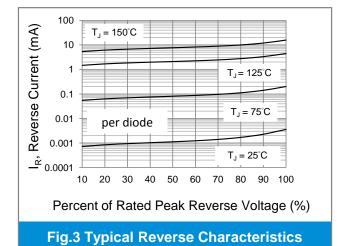
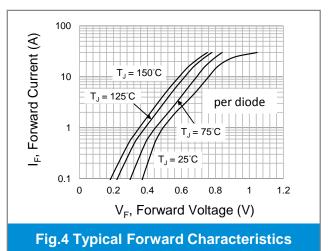


Fig.2 Typical Junction Capacitance





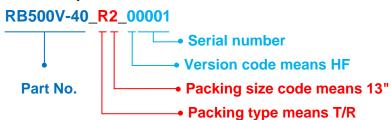




Part No_packing code_Version

SBT30150VPT_T0_00001 SBT30150VPT_T0_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)	A	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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