Plastic package has Underwriters Laboratory

Flammability Classification 94V-O.

Low power loss, High efficiency

40~200 V

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS Current

5 A

#### For use in low voltage, high frequency inverters free wheeling, and • polarity protection applications

High surge capacity

- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free) ٠

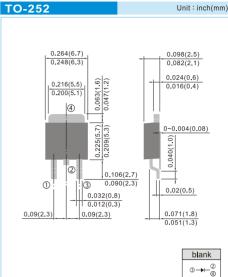
• For surface mounted applications in order to optimize board space

#### Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking •
- Approx. Weight: 0.0104 ounces, 0.297 grams •
- Marking: Part number •

### Maximum Ratings ( $T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	BD540S	BD545S	BD550S	BD560S	BD580S	BD590S	BD5100S	BD5150S	BD5200S	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	v
Maximum rms voltage		V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	v
Maximum dc blocking voltage		V <sub>R</sub>	40	45	50	60	80	90	100	150	200	v
Maximum average forward rectified current		I <sub>F(AV)</sub>	5							А		
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	100							А		
Maximum forward voltage at 5A		V <sub>F</sub>	0.7 0.74 0.8 0.9			.9	v					
Maximum dc reverse current at	TJ=25 ℃		0.05									mA
rated dc blocking voltage	T <sub>J</sub> =100 °C	I <sub>R</sub>	20									
Typical thermal resistance		$R_{\Theta JC}$	5							°C/W		
Operating junction and storage temperature range		Tj,T <sub>stg</sub>	-55 to +150 -65 to +175						°C			



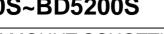


Voltage

Features

٠

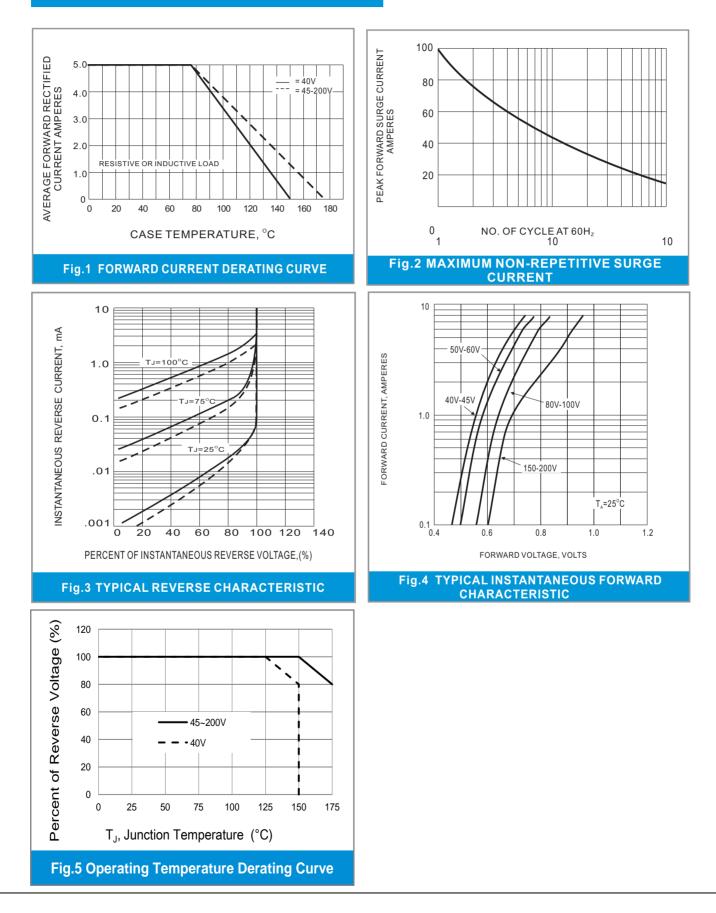
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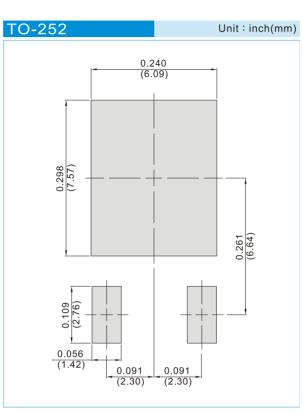








### **MOUNTING PAD LAYOUT**



#### ORDER INFORMATION

- Packing information
  - T/R 3K per 13" plastic Reel



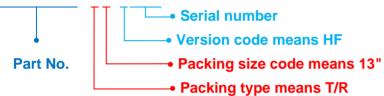


#### Part No\_packing code\_Version

BD540S\_L2\_00001 BD540S\_S2\_00001

### For example :

#### RB500V-40\_R2\_00001



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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