Plastic package has Underwriters Laboratory

Flammability Classification 94V-O.

• Low power loss, High efficiency

polarity protection applications

40~200 V

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS Current

5 A

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

High surge capacity

Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

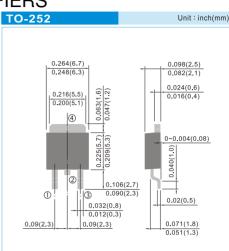
• For surface mounted applications in order to optimize board space

• For use in low voltage, high frequency inverters free wheeling, and

- 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 _{RRM}	40	45	50	60	80	90	100	150	200	v
Maximum rms voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	v
Maximum dc blocking voltage		V _R	40	45	50	60	80	90	100	150	200	v
Maximum average forward rectified current		I _{F(AV)}	5								А	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	100							А		
Maximum forward voltage at 5A		V _F	0.7 0.74 0.8 0.9				.9	v				
Maximum dc reverse current at	T _J =25 °C		0.05									mA
rated dc blocking voltage	T _J =100 °C	I _R	20									
Typical thermal resistance		$R_{\Theta JC}$	5							°C/W		
Operating junction and storage temperature range		T _J ,T _{STG}	-55 to +150 -65 to +175						°C			



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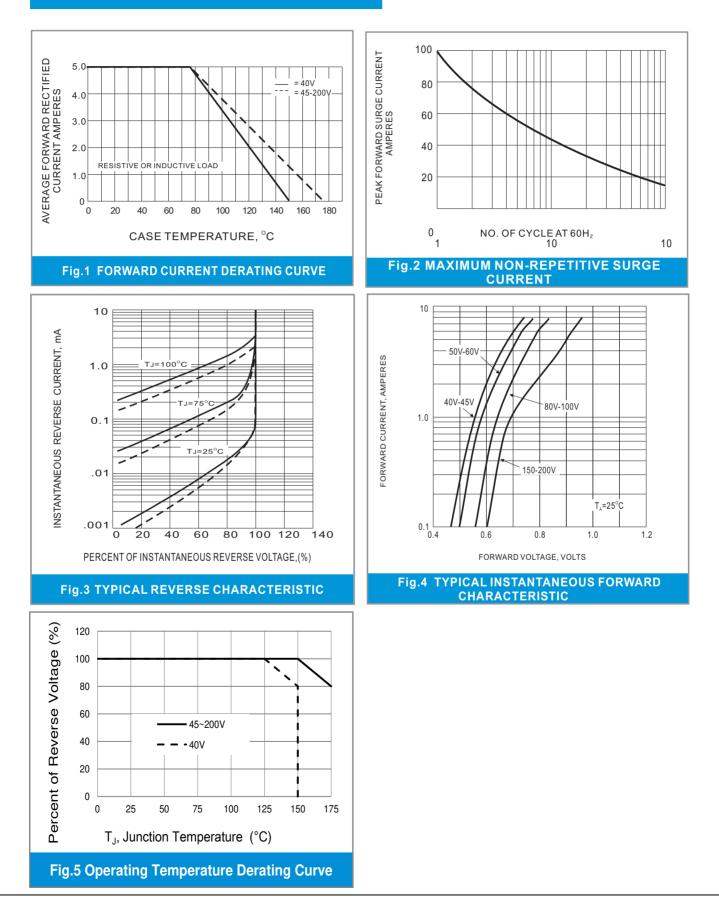
Voltage

Features





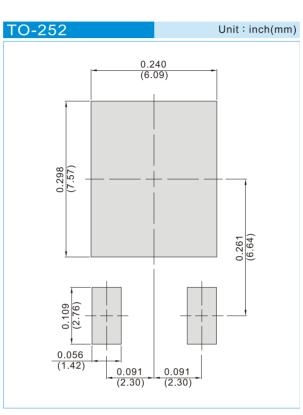
RATING AND CHARACTERISTIC CURVES







MOUNTING PAD LAYOUT



ORDER INFORMATION

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



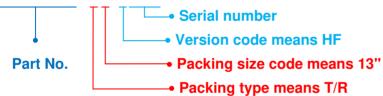


Part No_packing code_Version

BD540S_L2_00001 BD540S_S2_00001

For example :

RB500V-40_R2_00001



	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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