

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volt CURRENT 5 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space
- · Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

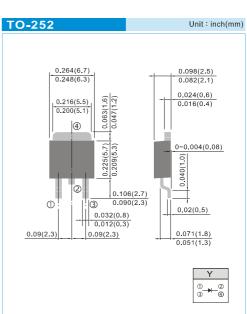
MECHANCAL DATA

- · Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0104 ounces, 0.297 grams.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

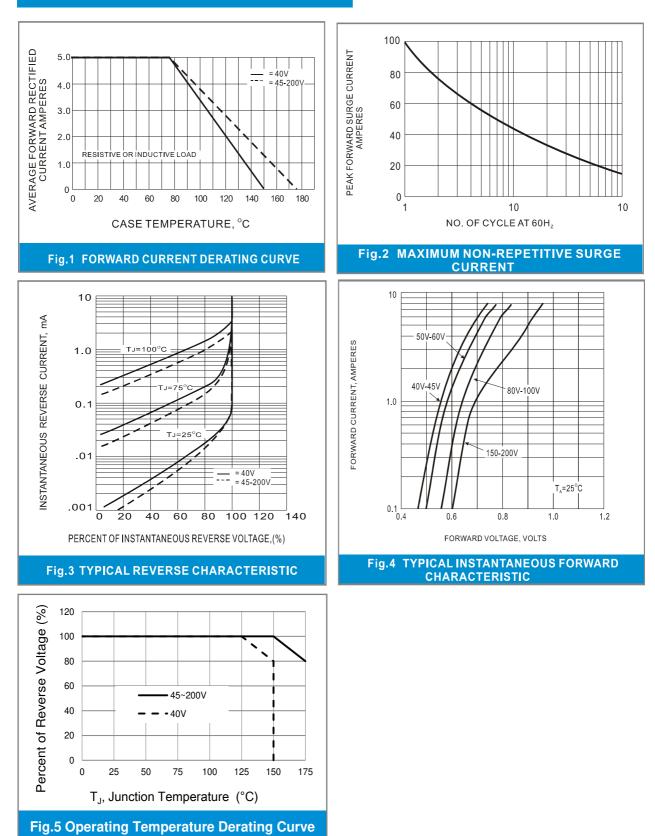
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

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PARAMETER	SYMBOL	BD540YS	BD545YS	BD550YS	BD560YS	BD580YS	BD590YS	BD5100YS	BD5150YS	BD5200YS	UNITS
Maximum Recurrent Peak Reverse Voltage		40	45	50	60	80	90	100	150	200	۷
Maximum RMS Voltage		28	31.5	35	42	56	63	70	105	140	۷
Maximum DC Blocking Voltage	V _R	40	45	50	60	80	90	100	150	200	V
Average Rectified Output Current	I _{F(AV)}	5				A					
Non-Repetitive Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100					A				
Forward Voltage at 5A	V _F	0.7		0.74		0.8		0.9		۷	
Peak Reverse Current at Rated DC Blocking $T_{J}=25^{\circ}C$ Voltage $T_{J}=100^{\circ}C$	I _R	0.05 20					mA				
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$	5				°C / W					
Operating Junction and Storage Temperature Range	T_,T _{stg}	-55 to +150 -65 to +175				°C					





BD540YS SERIES

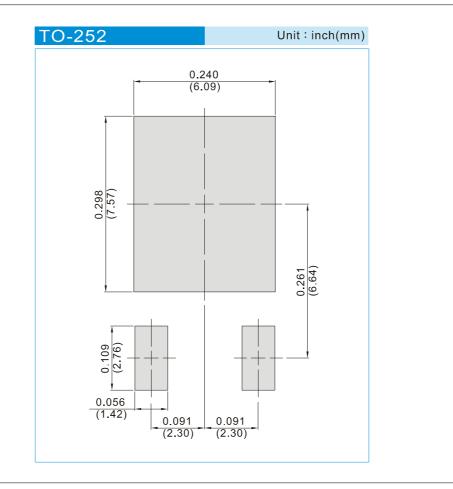


RATING AND CHARACTERISTIC CURVES



BD540YS SERIES

MOUNTING PAD LAYOUT

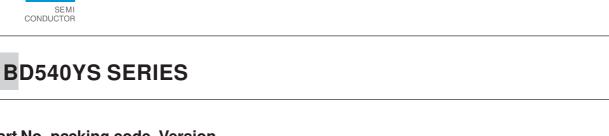


ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel





Part No_packing code_Version

BD540YS_L2_00001 BD540YS_S2_00001

For example :

RB500V-40_R2_00001

Serial number

Version code means HF

- Packing size code means 13"
- Packing type means T/R

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~5th 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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