



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

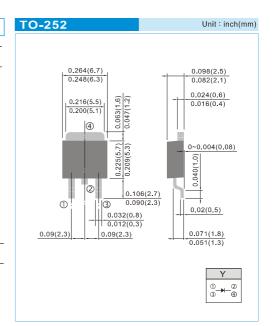
VOLTAGE 40 to 200 Volt CURRENT 5 Ampere

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.

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	V
Maximum RMS Voltage		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
Average Rectified Output Current	I _{F(AV)}	5					А				
Non-Repetitive Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100					А				
Forward Voltage at 5A	V _F	0.7 0.74		0.8		0.9		٧			
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 _{eJC}	5					°C / W				
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150 -65 to +175				°C					





RATING AND CHARACTERISTIC CURVES

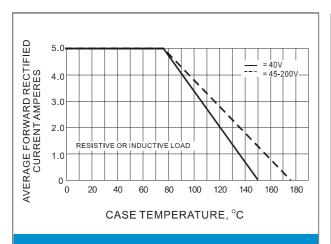


Fig.1- FORWARD CURRENT DERATING CURVE

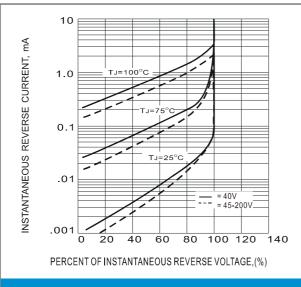


Fig.3-TYPICAL REVERSE CHARACTERISTIC

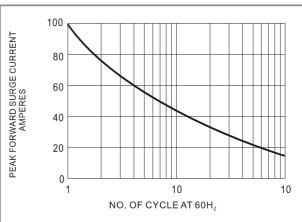


Fig.2 -MAXIMUM NON-REPETITIVE SURGE CURRENT

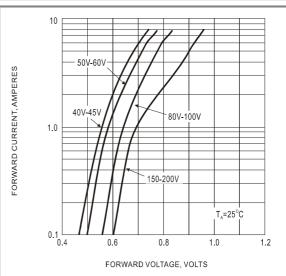
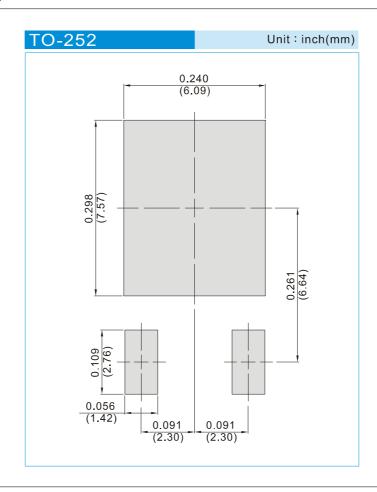


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

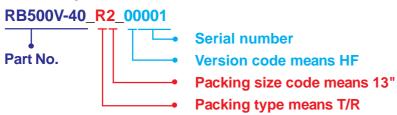




Part No_packing code_Version

BD540YS_L2_00001 BD540YS_S2_00001

For example:



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	Х						
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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