



BD540S~BD5200S

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

40~200 V

Current

5 A

Features

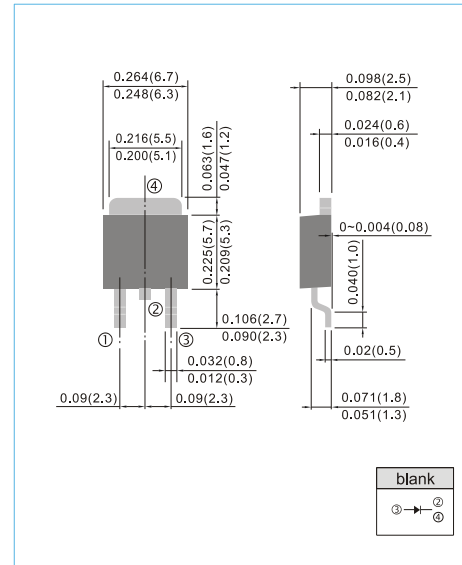
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

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

TO-252

Unit : inch(mm)



Maximum Ratings ($T_A=25^{\circ}\text{C}$ 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 | | | | | | | | | A | |
| Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 100 | | | | | | | | | A | |
| Maximum forward voltage at 5A | V_F | 0.7 | | 0.74 | | 0.8 | | | 0.9 | | V | |
| Maximum dc reverse current at rated dc blocking voltage | $T_J=25^{\circ}\text{C}$ | 0.05 | | | | | | | | | mA | |
| | $T_J=100^{\circ}\text{C}$ | 20 | | | | | | | | | | |
| Typical thermal resistance | $R_{\theta JC}$ | 5 | | | | | | | | | $^{\circ}\text{C/W}$ | |
| Operating junction and storage temperature range | T_J, T_{STG} | -55 to +150 | | | | -65 to +175 | | | | | | $^{\circ}\text{C}$ |



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RATING AND CHARACTERISTIC CURVES

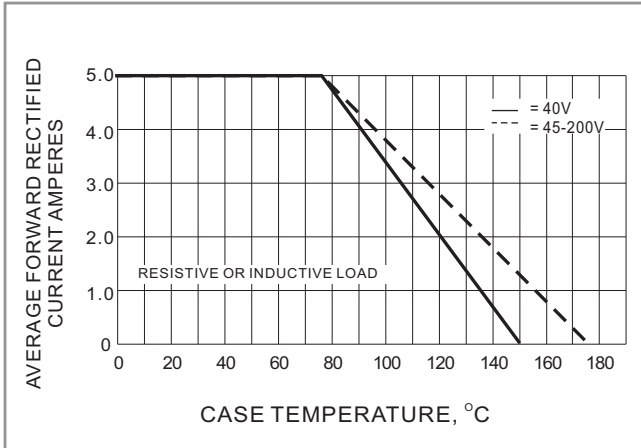


Fig.1 FORWARD CURRENT DERATING CURVE

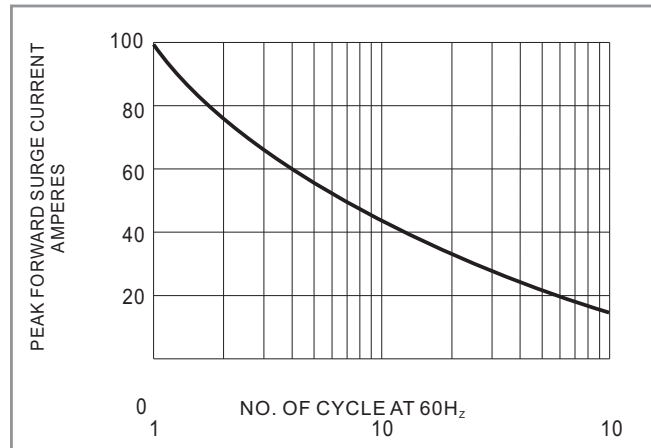


Fig.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

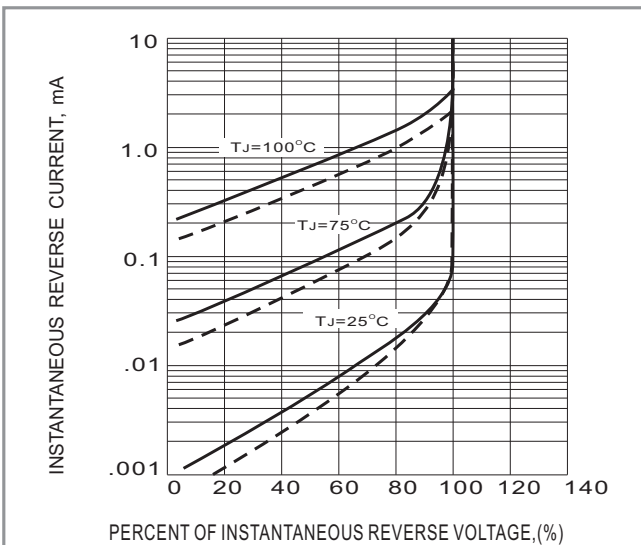


Fig.3 TYPICAL REVERSE CHARACTERISTIC

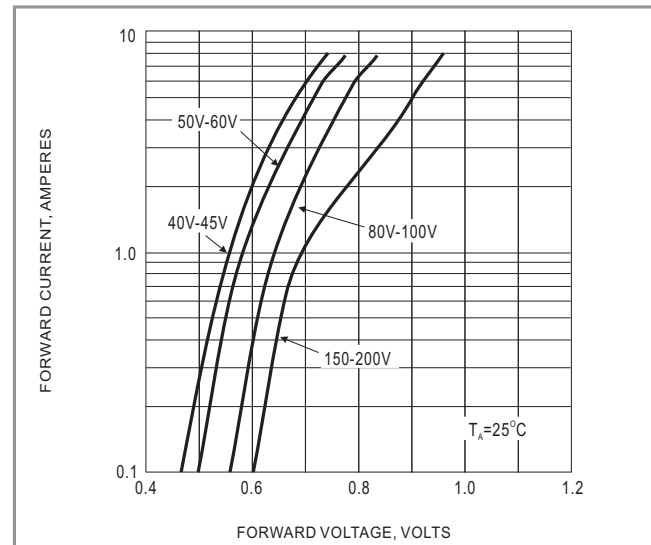


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

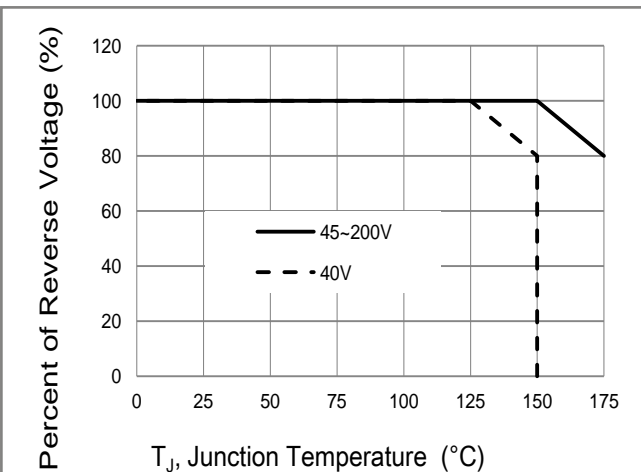
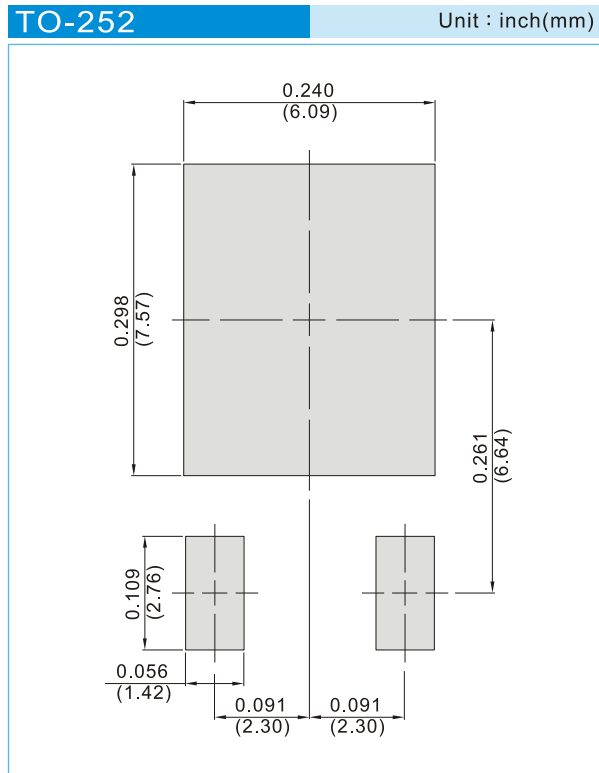


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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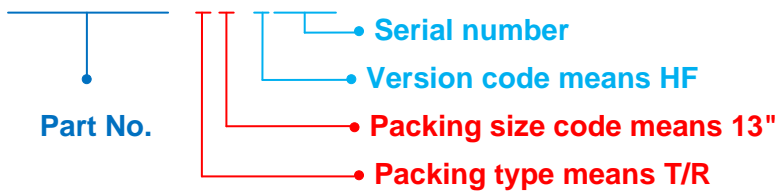
Part No_packing code_Version

BD540S_L2_00001

BD540S_S2_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 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) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 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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