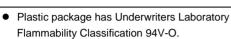
40~200 V

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS Current

6 A



- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency •

SEM CONDUCTOR

High surge capacity •

Voltage

Features

PANJ

- High temperature soldering guaranteed:260°C/10 seconds at terminals
- 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) ٠

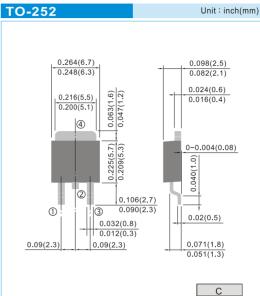
Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 •
- Polarity: As marking •
- Standard packaging: 16mm tape (EIA-481) •
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number •

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

| PARAMETER | | SYMBOL | BD640CS | BD645CS | BD650CS | BD660CS | BD680CS | BD690CS | BD6100CS | BD6150CS | BD6200CS | 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)} | 6 | | | | | | | | А | |
| Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load | | I _{FSM} | 75 | | | | | | | | А | |
| Maximum forward voltage at 3A per diode | | V _F | 0.7 0.75 0.8 0.9 | | | | .9 | V | | | | |
| Maximum dc reverse current at | TJ=25 °C | | 0.05 | | | | | | | | | mA |
| rated dc blocking voltage | TJ=100 °C | I _R | 20 | | | | | | | | | |
| Typical thermal resistance | | R_{\ThetaJC} | 5 | | | | | | | °C/W | | |
| Operating junction and storage temperature range | | T _J ,T _{STG} | -55 to +150 -65 to +175 | | | | | | °C | | | |

Note: Both Bonding and Chip structure are available.

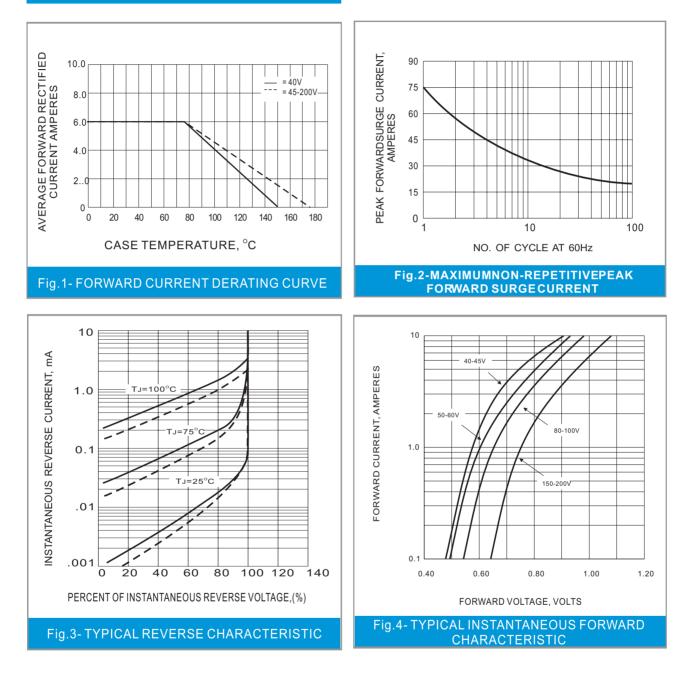








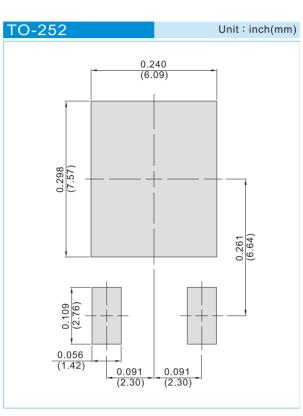








MOUNTING PAD LAYOUT



ORDER INFORMATION

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



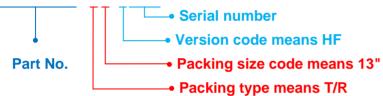


Part No_packing code_Version

BD640CS_L2_00001 BD640CS_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) | 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 | | | | | | |





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.