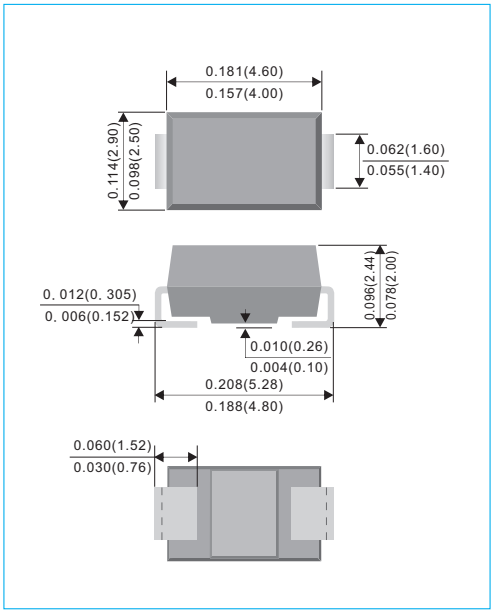
# BX34~BX320

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 40 to 200 Volt **CURRENT** 3 Ampere

**SMA / DO-214AC** Unit：inch(mm)

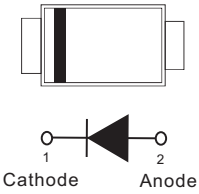



### FEATURES

- 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
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case : JEDEC DO-214AC molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Color band denotes cathode end
- Standard packaging : 12mm tape (EIA-481)
- Weight : 0.0023 ounces, 0.0679 grams




### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| PARAMETER | SYMBOL | BX34 | BX34A | BX35 | BX36 | BX38 | BX39 | BX310 | BX315 | BX320 | UNITS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent 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 | $V_{DC}$ | 40 | 45 | 50 | 60 | 80 | 90 | 100 | 150 | 200 | V |
| Maximum Average Forward Current (See figure1) | $I_{F(AV)}$ | 3 | | | | | | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | $I_{FSM}$ | 80 | | | | | | | | | A |
| Maximum Forward Voltage at 3A (Note 1) | $V_F$ | 0.7 | | 0.74 | | 0.8 | | | 0.9 | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J$=25°C | $I_R$ | 0.05 | | | | | | | | | mA |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J$=100°C | $I_R$ | 5 | | | | 2 | | | 1 | | mA |
| Typical Thermal Resistance (Note 2) | $R_{\theta JL}$<br>$R_{\theta JA}$ | 20<br>75 | | | | | | | | | °C / W |
| Operating Junction and Storage Temperature Range | $T_J$, $T_{STG}$ | -55 to +150 | -65 to +175 | | | | | | | | °C |

NOTES :

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. Mounted on P.C. Board with 8mm$^2$ (0.013mm thick) copper pad areas.

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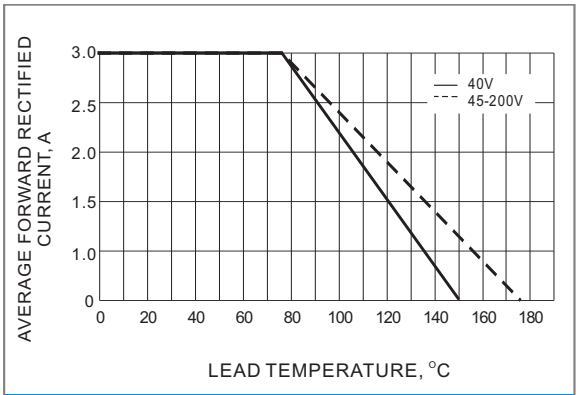


Fig.1 Forward Current Derating Curve

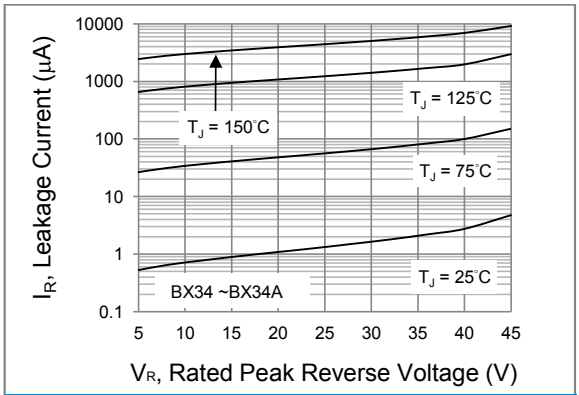


Fig.2 Typical Reverse Characteristics

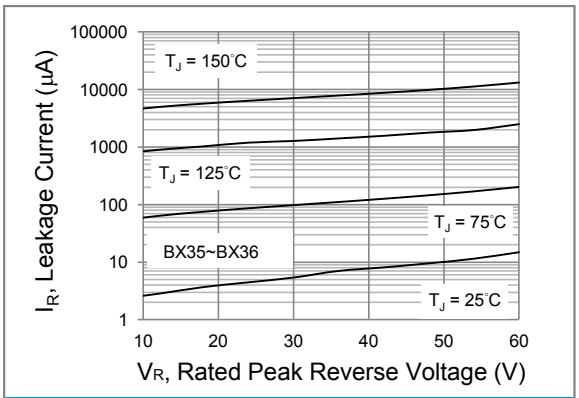


Fig.3 Typical Reverse Characteristics

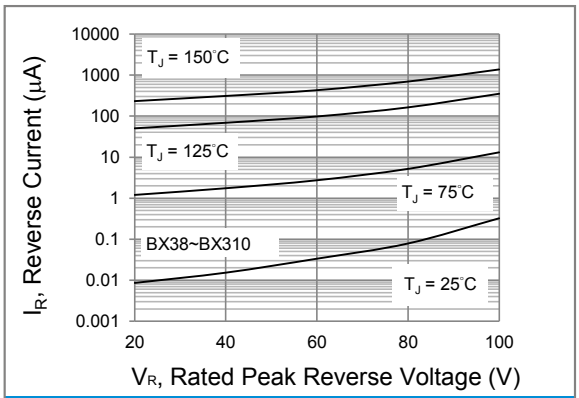


Fig.4 Typical Reverse Characteristics

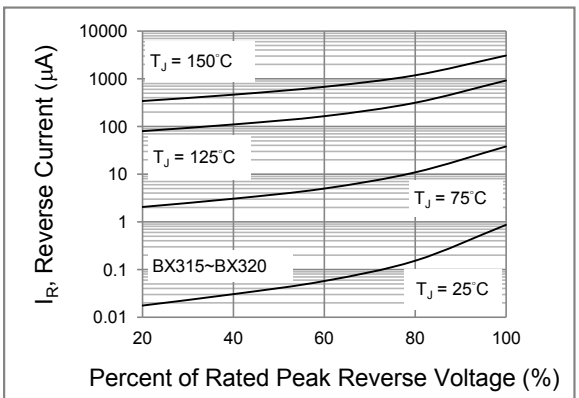


Fig.5 Typical Reverse Characteristics

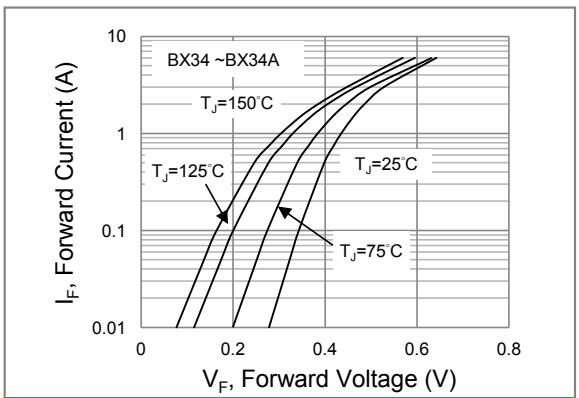


Fig.6 Typical Forward Characteristics

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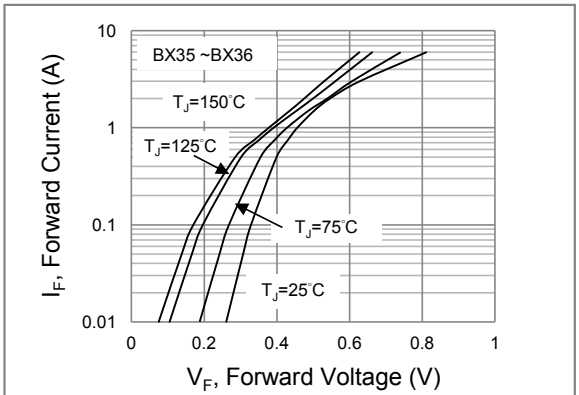


**Fig.7 Typical Forward Characteristics**

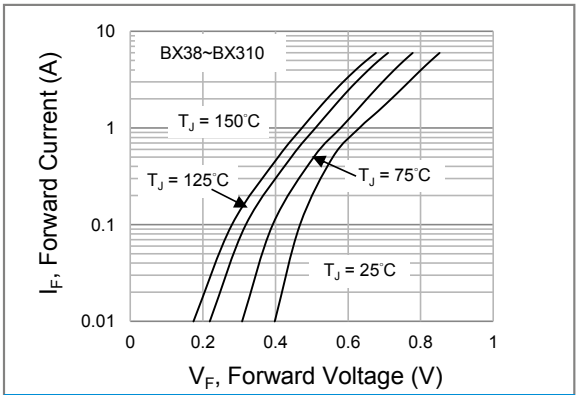


**Fig.8 Typical Forward Characteristics**

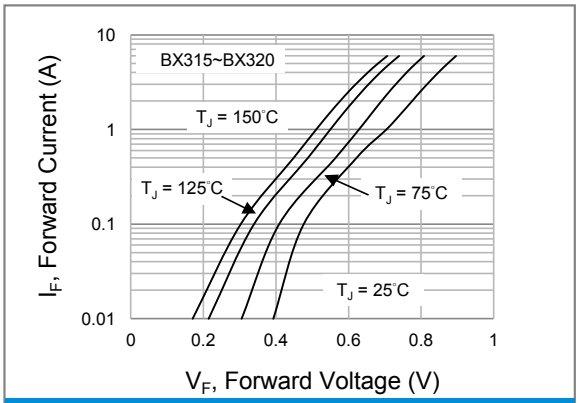


**Fig.9 Typical Forward Characteristics**

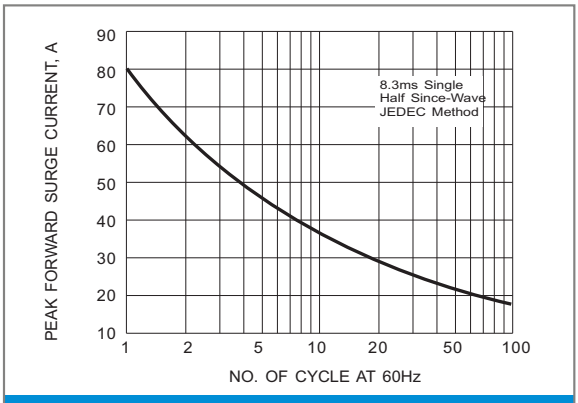


**Fig.10 Maximum Non-Repetitive Surge Current**

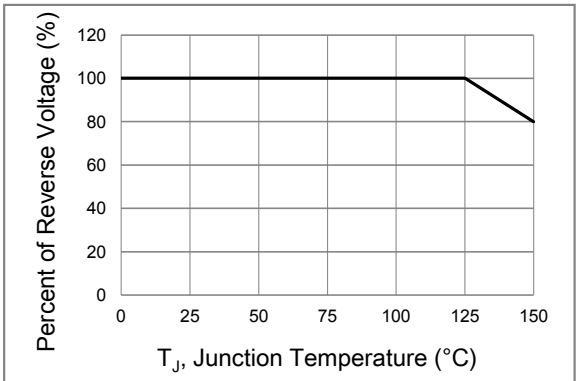


**Fig.11 Operating Temperature Derating Curve**

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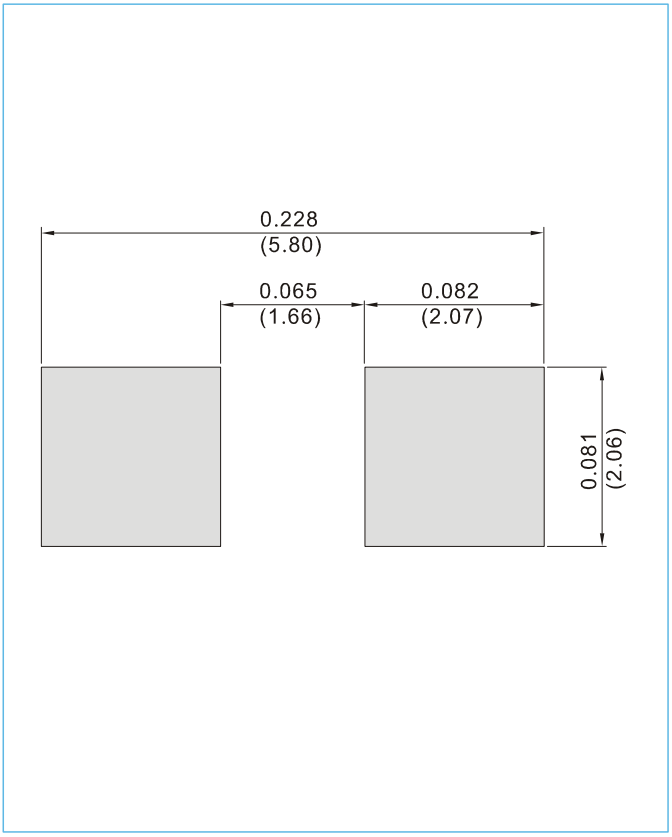
## MOUNTING PAD LAYOUT

SMA / DO-214AC Unit : inch(mm)




## ORDER INFORMATION

- Packing information

  T/R - 7.5K per 13" plastic Reel

  T/R - 1.8K per 7" plastic Reel

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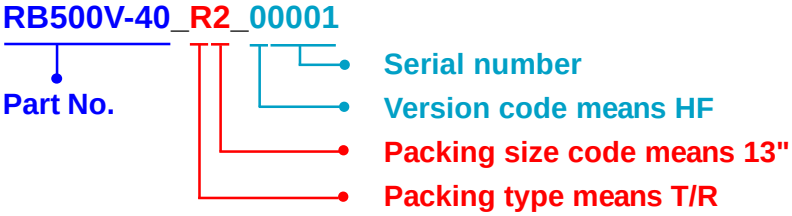
## Part No_packing code_Version

BX34_R1_00001

BX34_R2_00001

## For example :




| Packing Code XX | | | | Version Code XXXXX | | |
|---|---|---|---|---|---|---|
| Packing type | 1st Code | Packing size code | 2nd Code | HF or RoHS | 1st Code | 2nd~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) | 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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