# SS2060HEWS

## SCHOTTKY BARRIER RECTIFIERS

| **Voltage** | **60 V** | **Current** | **2 A** |

### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity 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: Molded plastic, SOD-323HE
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams
- Marking: EX

**SOD-323HE**  Unit : inch(mm)

Cathode    Anode
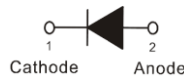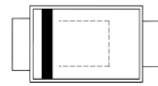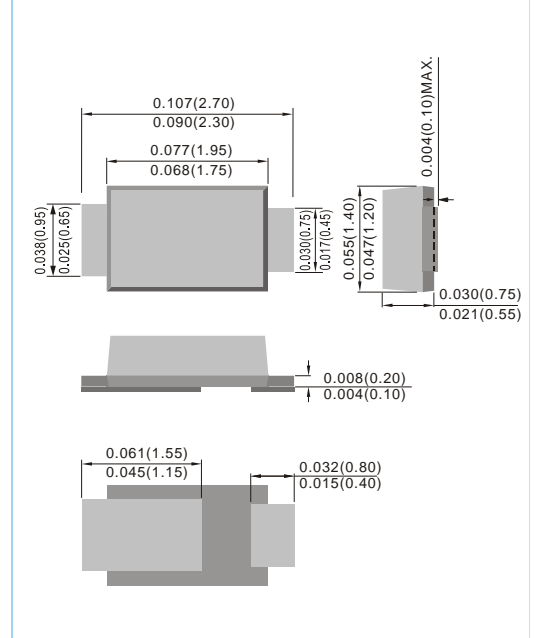
## Maximum Ratings ($T_A$=25$^o$C unless otherwise noted)

| PARAMETER | | SYMBOL | VALUE | UNIT |
|-----------|---|--------|-------|------|
| Maximum repetitive peak reverse voltage | | $V_{RRM}$ | 60 | V |
| Maximum rms voltage | | $V_{RMS}$ | 42 | V |
| Maximum dc blocking voltage | | $V_R$ | 60 | V |
| Maximum average forward rectified current | | $I_{F(AV)}$ | 2 | A |
| Peak forward surge current : 8.3ms single half sine-wave  superimposed on rated load | | $I_{FSM}$ | 30 | A |
| Maximum forward voltage at 2A | | $V_F$ | 0.85 | V |
| Maximum dc reverse current at rated dc blocking voltage | | $I_R$ | 30 | μA |
| Typical junction capacitance  ($V_R$=4V,f=1MHz) | | $C_J$ | 50 | pF |
| Typical thermal resistance | (Note 1) | $R_{\theta JA}$ | 250 | $^o$C/W |
| | (Note 2) | $R_{\theta JC}$ | 28 | |
| Operating junction temperature range | | $T_J$ | -55 to +150 | $^o$C |
| Storage temperature range | | $T_{STG}$ | -55 to +150 | $^o$C |

Note:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

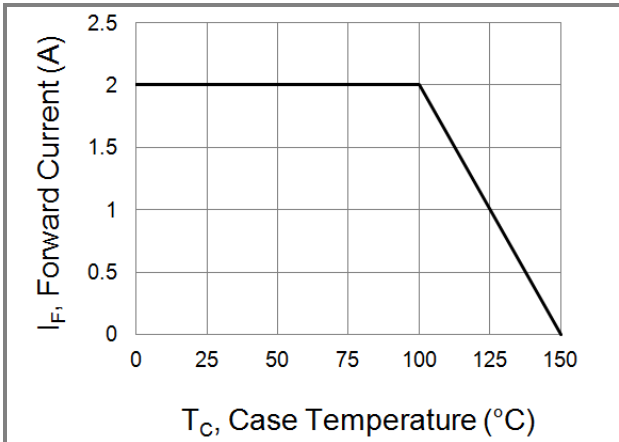2.Mounted on a FR4 PCB, single-sided copper, with 100cm$^2$ copper pad area
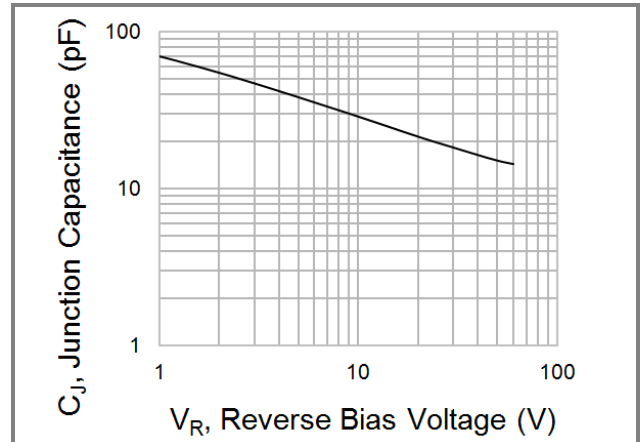
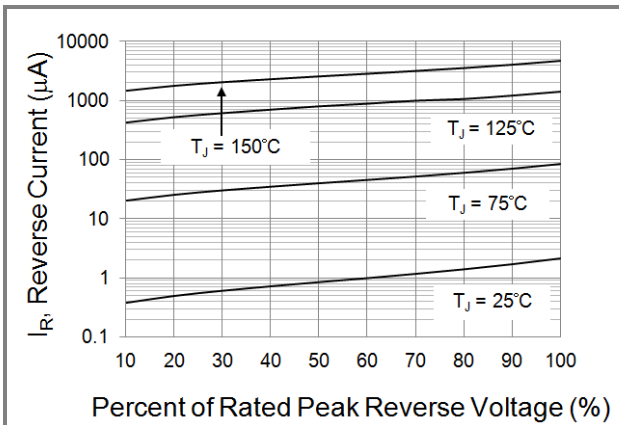**Fig.1 Forward Current Derating Curve**

**Fig.2 Typical Junction Capacitance**

**Fig.3 Typical Reverse Characteristics**
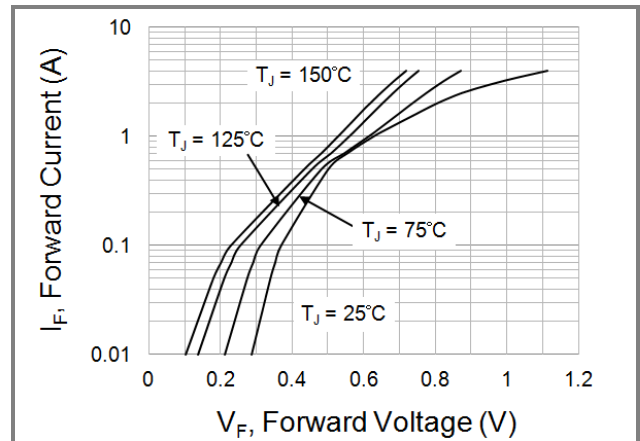
**Fig.4 Typical Forward Characteristics**

## MOUNTING PAD LAYOUT

**SOD-323HE**      Unit：inch(mm)

```
                    0.126
                    (3.2)

        0.073                    0.035
        (1.85)                   (0.9)

0.043  ┌──────────┐         ┌────────┐  0.039
(1.1)  │          │         │        │  (1.0)
       └──────────┘         └────────┘

              0.072
              (1.825)
```
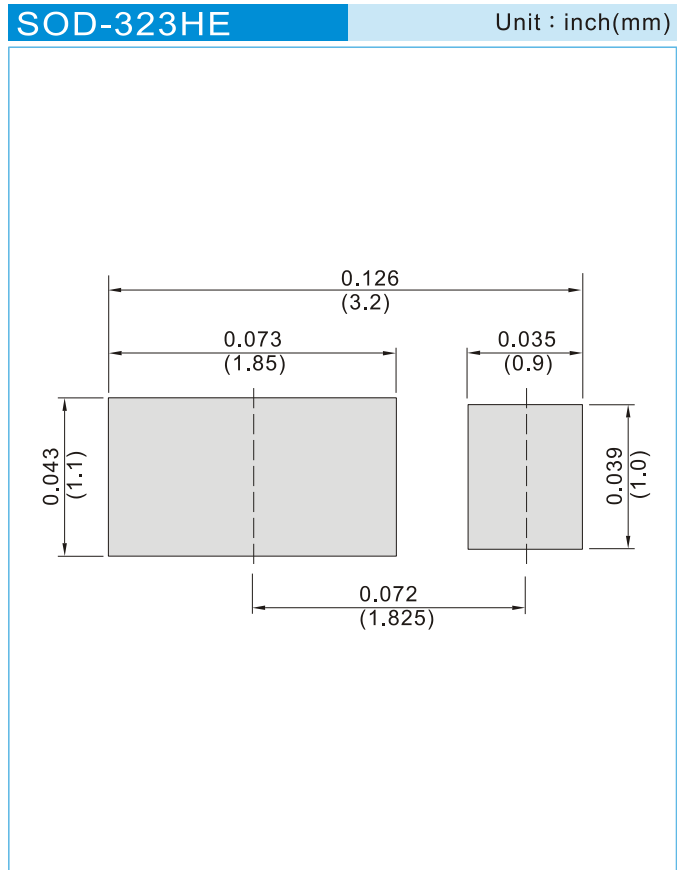
## ORDER  INFORMATION

• Packing information
   T/R – 12K per 13" plastic Reel
   T/R – 5K per 7" plastic Reel

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**Part No_packing code_Version**
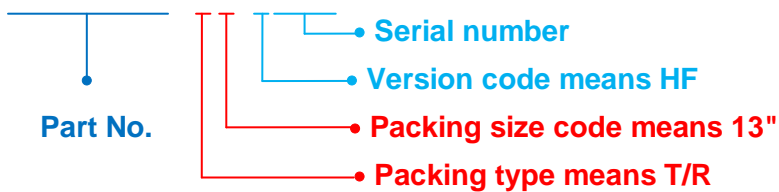
SS2060HEWS_R1_00001

SS2060HEWS_R2_00001

**For example :**

RB500V-40_R2_00001

- Serial number
- Version code means HF
- Packing size code means 13"
- Packing type means T/R

Part No.

| 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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