

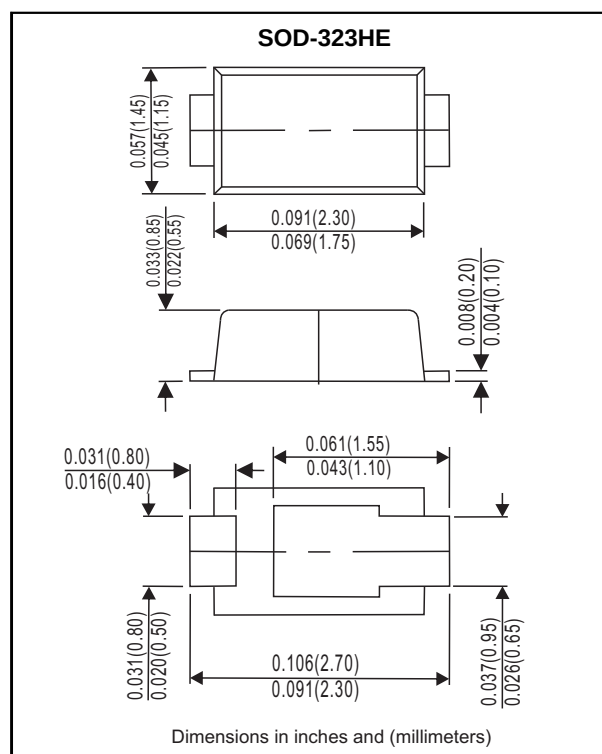
### Features

- Trench MOS schottky barrier diode
- Low forward voltage drop
- Low profile
- RoHS compliant
- Compliant to Halogen-free

### Mechanical data

- Case: SOD-323HE
- Case material: molding compound meets UL 94V-0 flammability rating
- Polarity: color band denotes cathode end

### Package outline



### Maximum Ratings ( $T_A=25^\circ\text{C}$ Unless otherwise specified)

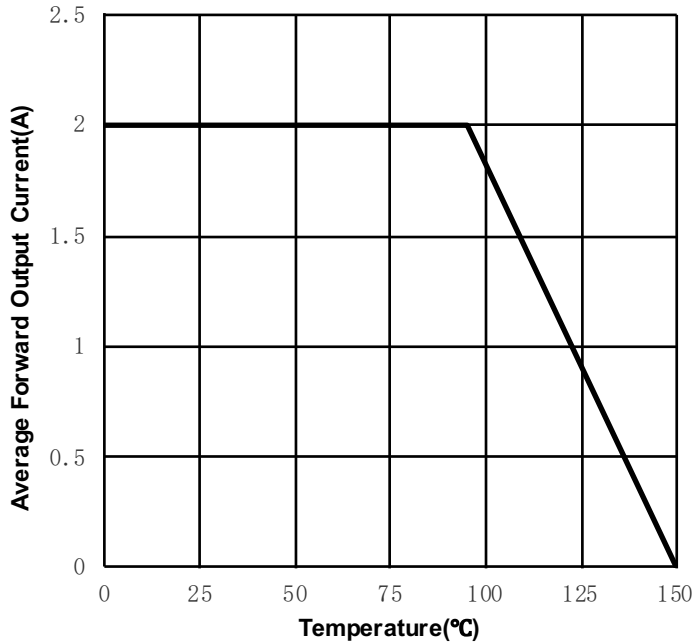
| Parameter                                                                            | Symbol      | Value       | Unit             |
|--------------------------------------------------------------------------------------|-------------|-------------|------------------|
| Repetitive Peak Reverse Voltage                                                      | $V_{RRM}$   | 60          | V                |
| Average Forward Rectified Current                                                    | $I_{F(AV)}$ | 2           | A                |
| Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load) | $I_{FSM}$   | 25          | A                |
| Operating Junction Temperature Range                                                 | $T_J$       | -55 to +150 | $^\circ\text{C}$ |
| Storage Temperature Range                                                            | $T_{STG}$   | -55 to +150 | $^\circ\text{C}$ |

### Electrical Characteristics ( $T_A=25^\circ\text{C}$ Unless otherwise specified)

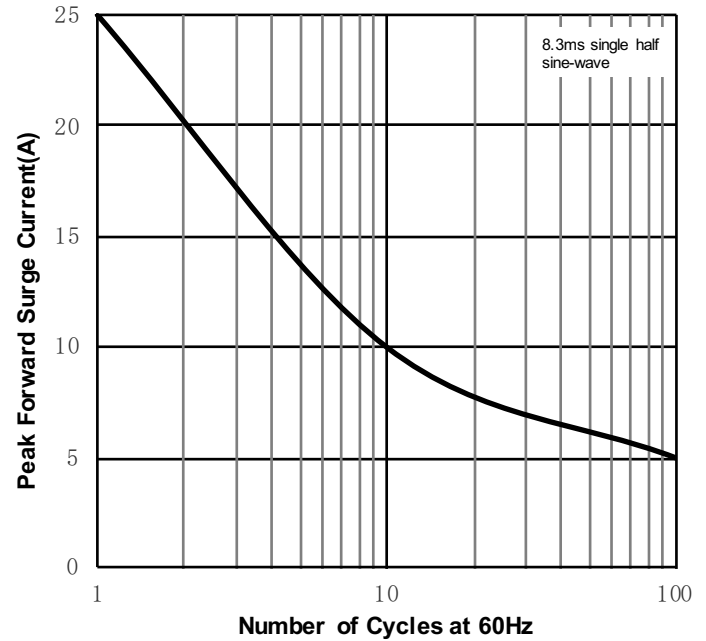
| Parameter                         | Test Conditions         | Symbol          | Value | Unit               |
|-----------------------------------|-------------------------|-----------------|-------|--------------------|
|                                   |                         |                 | Max.  |                    |
| Forward Voltage @ $I_F=2\text{A}$ | $T_A=25^\circ\text{C}$  | $V_F$           | 0.6   | V                  |
|                                   | $T_A=125^\circ\text{C}$ |                 | 0.52  |                    |
| Reverse Current @ $V_{RRM}$       | $T_A=25^\circ\text{C}$  | $I_R$           | 70    | $\mu\text{A}$      |
|                                   | $T_A=125^\circ\text{C}$ |                 | 50    | mA                 |
| Typical Thermal Resistance        |                         | $R_{\theta JA}$ | 450   | $^\circ\text{C/W}$ |

### Rating and characteristic curves

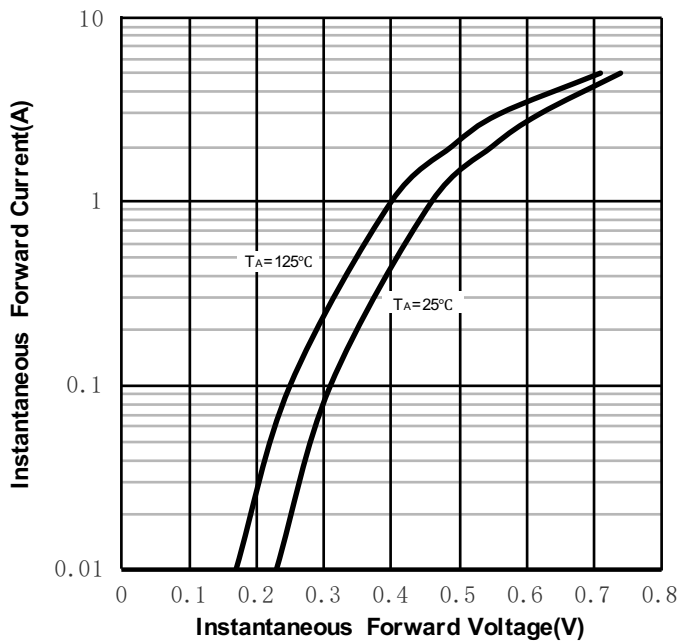
**FIG.1: Forward Output Current Derating Curve**



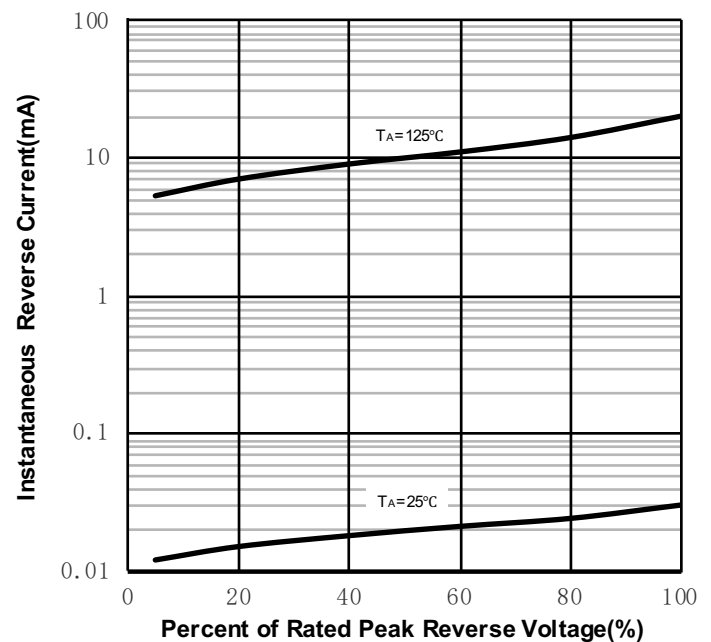
**FIG.2: Maximum Non-Repetitive Peak Forward Surge Current**



**FIG.3: Typical Forward Characteristics**



**FIG.4: Typical Reverse Characteristics**



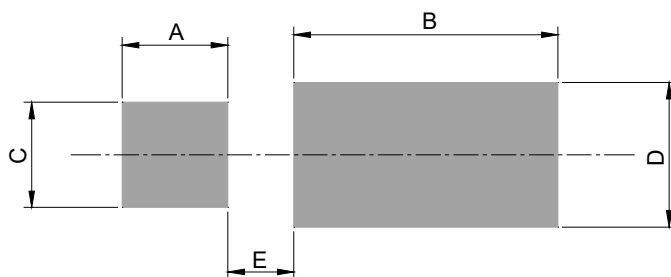
### Pinning information

| Pin                                           | Simplified outline                                                                 | Symbol                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Uni-Directional<br>Pin1 cathode<br>Pin2 anode |  |  |

### Marking

| Type number | Marking code |
|-------------|--------------|
| SS26-NHT-D  | 6E           |

### Suggested solder pad layout



Dimensions in inches and (millimeters)

| PACKAGE   | A            | B            | C            | D            | E            |
|-----------|--------------|--------------|--------------|--------------|--------------|
| SOD-323HE | 0.032 (0.80) | 0.079 (2.00) | 0.032 (0.80) | 0.043 (1.10) | 0.020 (0.50) |