

■ Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Compliant with RoHS standards, halogen-free
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

■ MECHANICAL DATA

- Package: SOD-123HE
- Terminals: Tin plated leads, solderable per
- Polarity: Cathode line denotes the cathode end

■ APPLICATIONS

- DC/DC converters
- Freewheeling
- low voltage high frequency inverters
- polarity protection applications

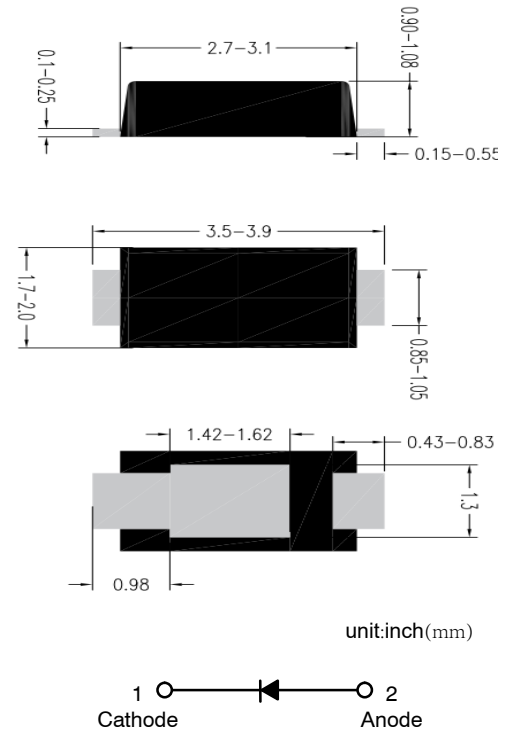
■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS22HE | SS23HE | SS24HE | SS25HE | SS26HE | SS28HE | SS210HE | SS215HE | SS220HE |
|--|--------|------|-----------|--------|--------|--------|----------|--------|---------|---------|---------|
| Repetitive peak reverse voltage | VRRM | V | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 |
| Average rectified output current @60Hz sine wave, Resistance load, T_a (FIG.1) | IO | A | 2.0 | | | | | | | | |
| Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_j=25^\circ\text{C}$ | IFSM | A | 40 | | | | | | | | |
| Storage temperature | Tstg | °C | -55 ~+150 | | | | | | | | |
| Junction temperature | Tj | °C | -55 ~+1 | | | | -55 ~+17 | | | | |

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

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | SS22HE | SS23HE | SS24HE | SS25HE | SS26HE | SS28HE | SS210HE | SS215HE | SS220HE |
|--|------------------|------|-------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Maximum instantaneous forward voltage drop per diode | V _F | V | I _{FM} =2.0A | 0.55 | | 0.70 | | 0.85 | | 0.95 | | |
| Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$ | I _{RRM} | mA | $T_a=25^\circ\text{C}$ | 0.50 | | | | 0.10 | | | | |
| | | | $T_a=100^\circ\text{C}$ | 10 | | | | 5 | | | | |

SOD-123HE





■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS22HE | SS23HE | SS24HE | SS25HE | SS26HE | SS28HE | SS210HE | SS215HE | SS220HE |
|--------------------|----------------|------|------------------|--------|--------|--------|--------|--------|---------|---------|---------|
| Thermal Resistance | R θ J-A | °C/W | 70 ¹⁾ | | | | | | | | |
| | R θ J-L | | 20 ¹⁾ | | | | | | | | |

Note:
(1) Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas.

■ Characteristics (Typical)

FIG1: I_o-T_L Curve

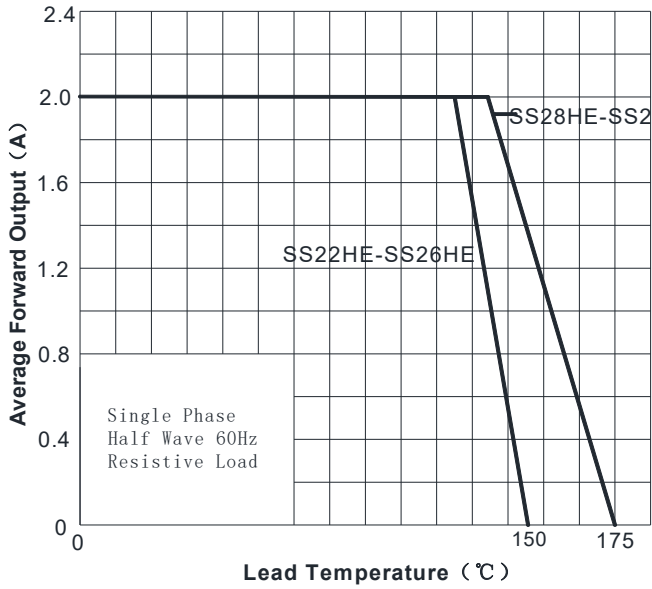


FIG2: Surge Forward Current Capability

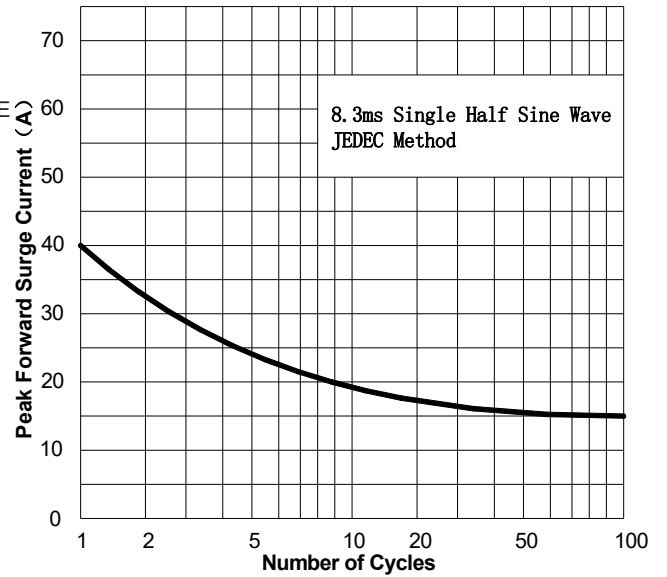


FIG3: Forward Voltage

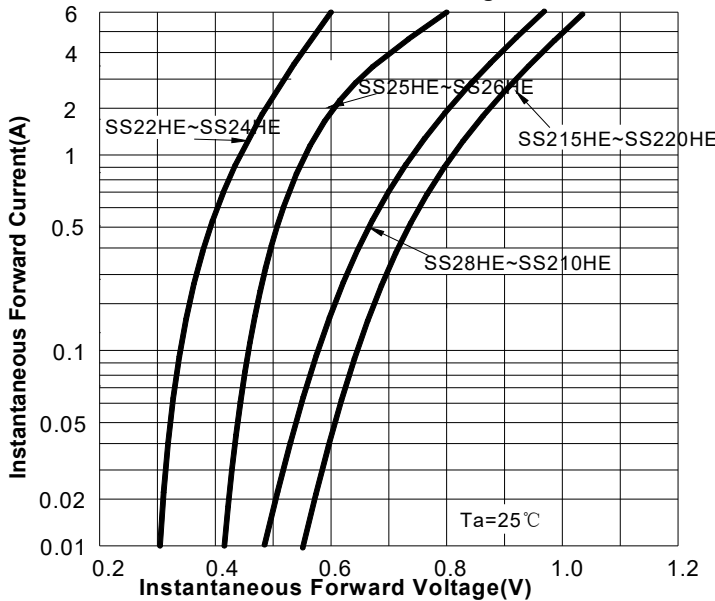
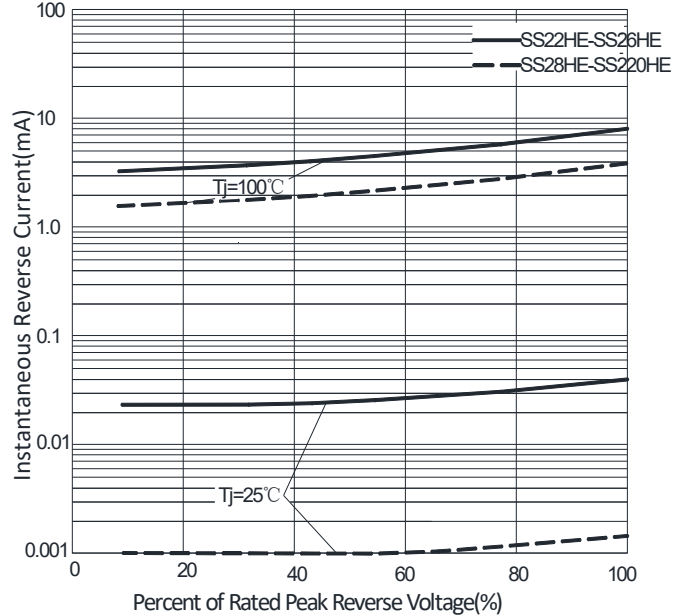


FIG4: Typical Reverse Characteristics



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