

RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

FEATURES

- High current density
- Low power losses
- High efficiency
- Low forward voltage drop

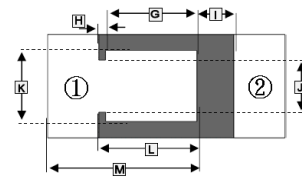
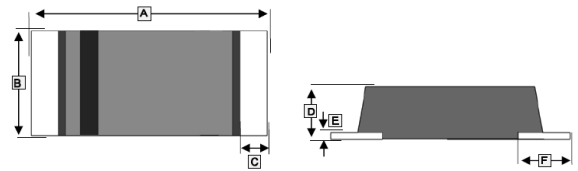
MARKING

L24

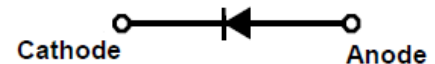
PACKAGE INFORMATION

| Package | MPQ | Leader Size |
|-----------|-----|-------------|
| SOD-123HT | 3K | 7 inch |

SOD-123HT



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|------|
| | Min. | Max. | | Min. | Max. |
| A | 3.3 | 3.7 | H | 0.6 TYP. | |
| B | 1.4 | 1.8 | I | 0.6 | 0.8 |
| C | 0.3 TYP. | | J | 0.75 | 0.85 |
| D | 0.6 | 1.0 | K | 1.0 | 1.2 |
| E | 0.1 TYP. | | L | 1.1 | 1.3 |
| F | 0.8 TYP. | | M | 2.0 TYP. | |
| G | 1.0 | 1.2 | | | |



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

| Parameter | Symbol | Rating | Unit |
|---|-----------------------------------|--------------|--------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 40 | V |
| Maximum RMS Voltage | V _{RMS} | 28 | V |
| Maximum Continuous Reverse Voltage | V _R | 40 | V |
| Maximum Average Forward Rectified Current@ see fig.2 | I _O | 2 | A |
| Non-Repetitive Peak Forward Surge Current@ 8.3 ms single half sine-wave (JEDEC method) | I _{FSM} | 50 | A |
| Maximum Instantaneous Forward Voltage@ I _F =2A | V _F | 0.4 | V |
| Maximum Reverse Leakage Current at Rated V _R @ V _R = V _{RRM} , T _J =25°C | I _R | 1 | mA |
| Typical Thermal Resistance from Junction to Lead ¹ | R _{θJL} | 31 | °C / W |
| Typical Junction Capacitance@ f=1MHz, 4V DC reverse voltage | C _J | 160 | pF |
| Operating Junction and Storage Temperature | T _J , T _{STG} | 100, -65~175 | °C |

Notes:

1. The device is mounted on a FR-4 PCB with a recommended minimum copper pad.

CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CHARACTERISTICS

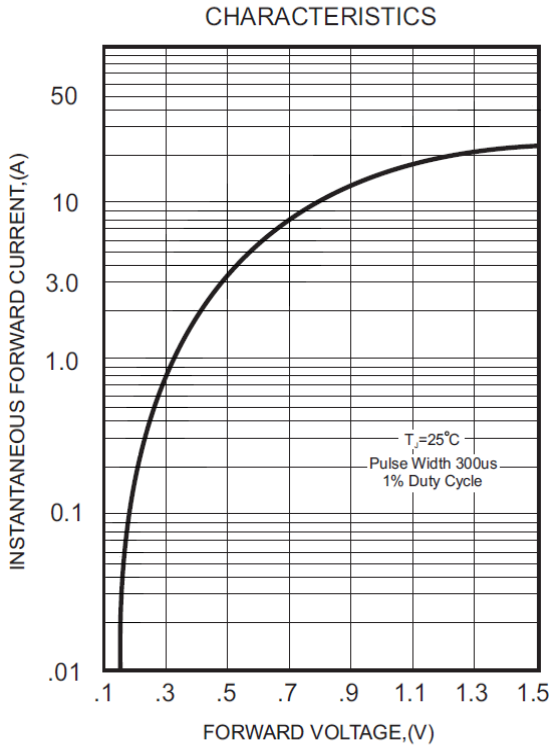


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

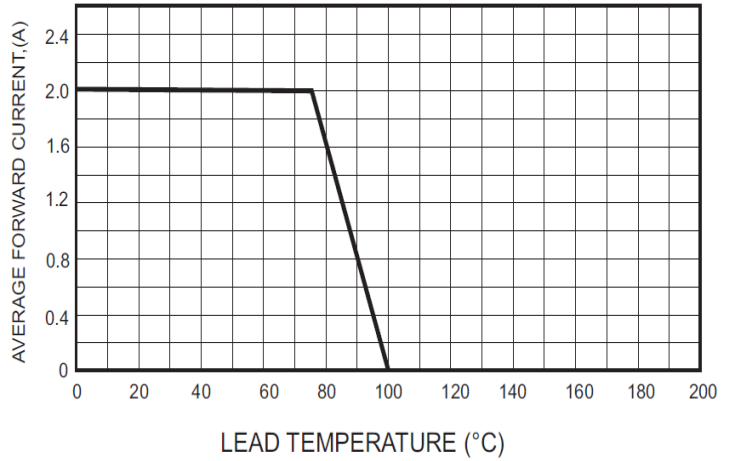


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

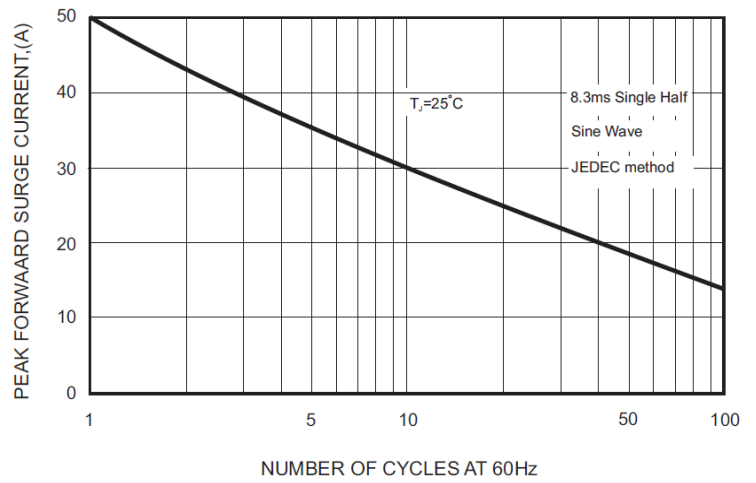


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

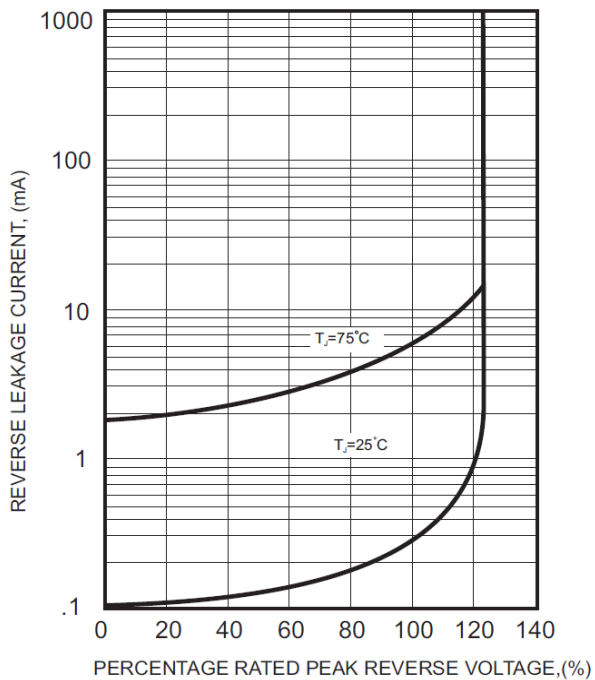


FIG.5-TYPICAL JUNCTION CAPACITANCE

