

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260 °C/10seconds,9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



DO-201

Mechanical Data

- Case:DO-201 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

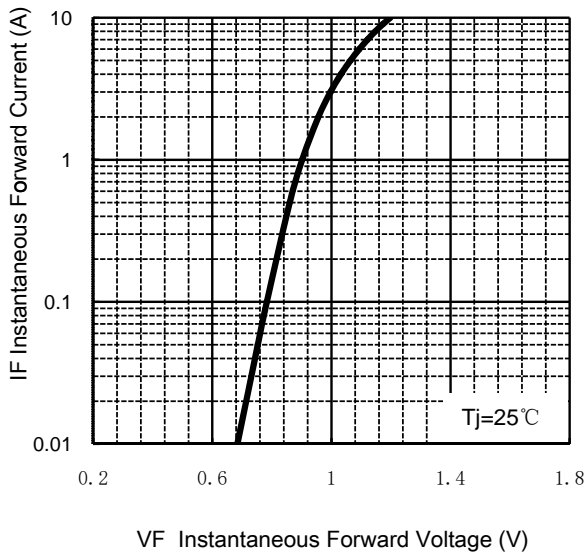
| Parameter | Symbols | 1N 5400 | 1N 5401 | 1N 5402 | 1N 5403 | 1N 5404 | 1N 5405 | 1N 5406 | 1N 5407 | 1N 5408 | Unit |
|--|----------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 210 | 280 | 350 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current | $I_{F(AV)}$ | 3.0 | | | | | | | | | A |
| Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave | I_{FSM} | 200 | | | | | | | | | A |
| @IF= 3.0 A Maximum forward voltage | V_F | 1.1 | | | | | | | | | V |
| @ V_{DC} Maximum reverse current | I_R | 10 | | | | | | | | | μA |
| $T_A= 25^\circ C$ $T_A= 100^\circ C$ | | 100 | | | | | | | | | |
| Typical thermal resistance (Note 1) | $R\theta JA$ | 20 | | | | | | | | | $^\circ C/W$ |
| VR=4.0V,f=1MHz Type junction capacitance | C_j | 10 | | | | | | | | | pF |
| Operating junction and storage temperature rang | T_j, T_{STG} | -55 --- +150 | | | | | | | | | $^\circ C$ |

Note:

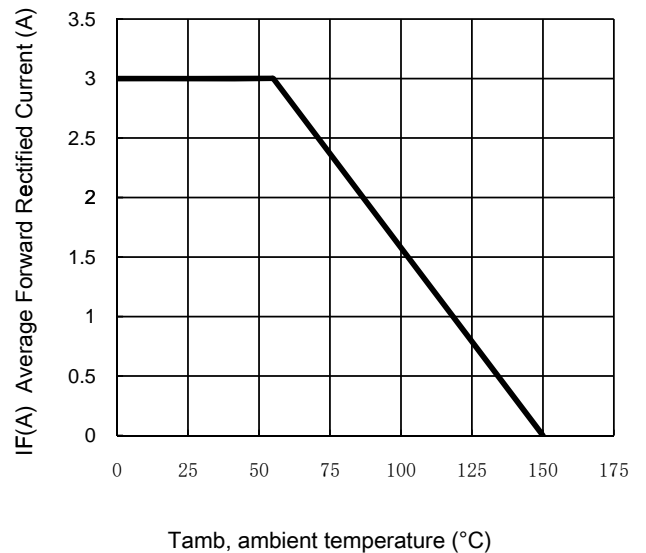
- 1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

Characteristic Curves

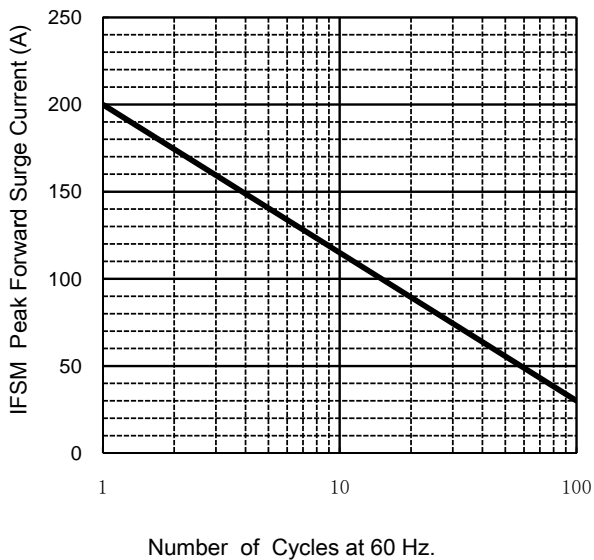
TYPICAL FORWARD CHARACTERISTIC



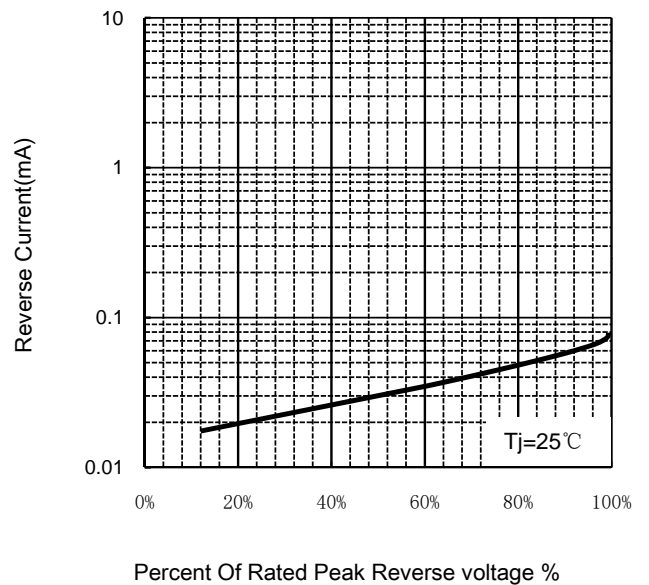
FORWARD CURRENT DERATING CURVE



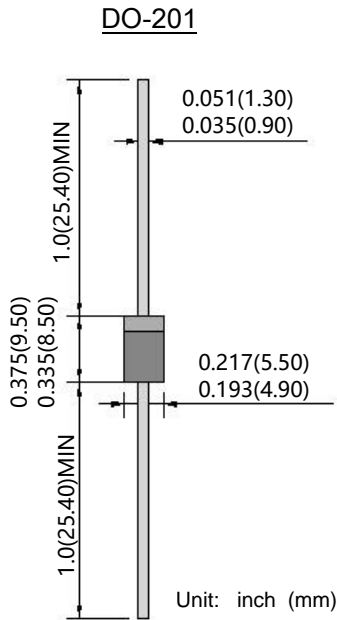
MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Package Information

Qty: 1,250PCS/ Box-packed