

FEATURES

- ◆ For use in low voltage, high frequency inverters
- ◆ Free wheeling, and polanty protection applications

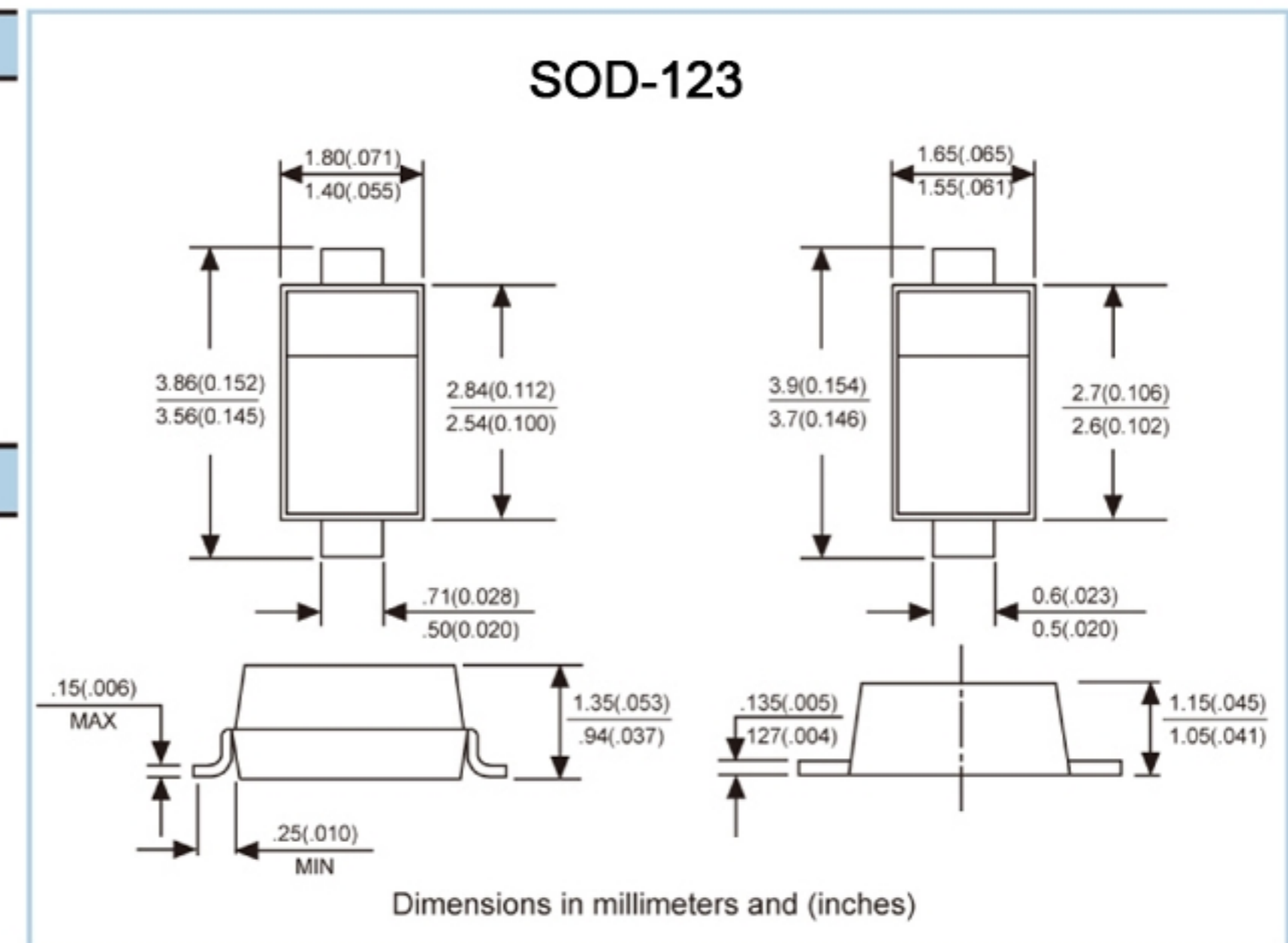
MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Marking: L2L



Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ\text{C}$

| PARAMETER | SYMBOLS | FIGURE | UNITS |
|---|-----------------|-------------|------------------|
| Peak repetitive peak reverse voltage | V_{RRM} | 20 | V |
| Working peak reverse voltage | V_{RWM} | | |
| DC Blocking voltage | V_R | | |
| RMS Reverse voltage | $V_{R(RMS)}$ | 28 | V |
| Average rectified output current | I_o | 1 | A |
| Peak forward surge current @ $t=8.3\text{ms}$ | I_{FSM} | 25 | A |
| Repetitive peak forward current | I_{FRM} | 625 | mA |
| Power dissipation | P_d | 250 | mW |
| Thermal resistance junction to ambient | $R_{\theta JA}$ | 500 | K/W |
| Storage temperature | T_{STG} | -65 to +150 | $^\circ\text{C}$ |
| Non-Repetitive peak reverse voltage | V_{RM} | 20 | V |

Electrical ratings @ $T_A=25^\circ\text{C}$

| PARAMETER | SYMBOLS | Min. | Max. | Unit | Test conditions |
|---------------------------------|------------|------|------|------|----------------------------------|
| Reverse breakdown voltage | $V_{(BR)}$ | 20 | | V | $I_R=1\text{mA}$ |
| Reverse voltage leakage current | I_R | | 1 | mA | $V_R=20\text{V}$ |
| Forward voltage | V_F | | 0.6 | V | $I_F=1\text{A}$ |
| Diode capacitance | C_D | | 120 | pF | $V_R=4\text{V}, f=1.0\text{MHz}$ |

FIG. 1- FORWARD CURRENT DERATING CURVE

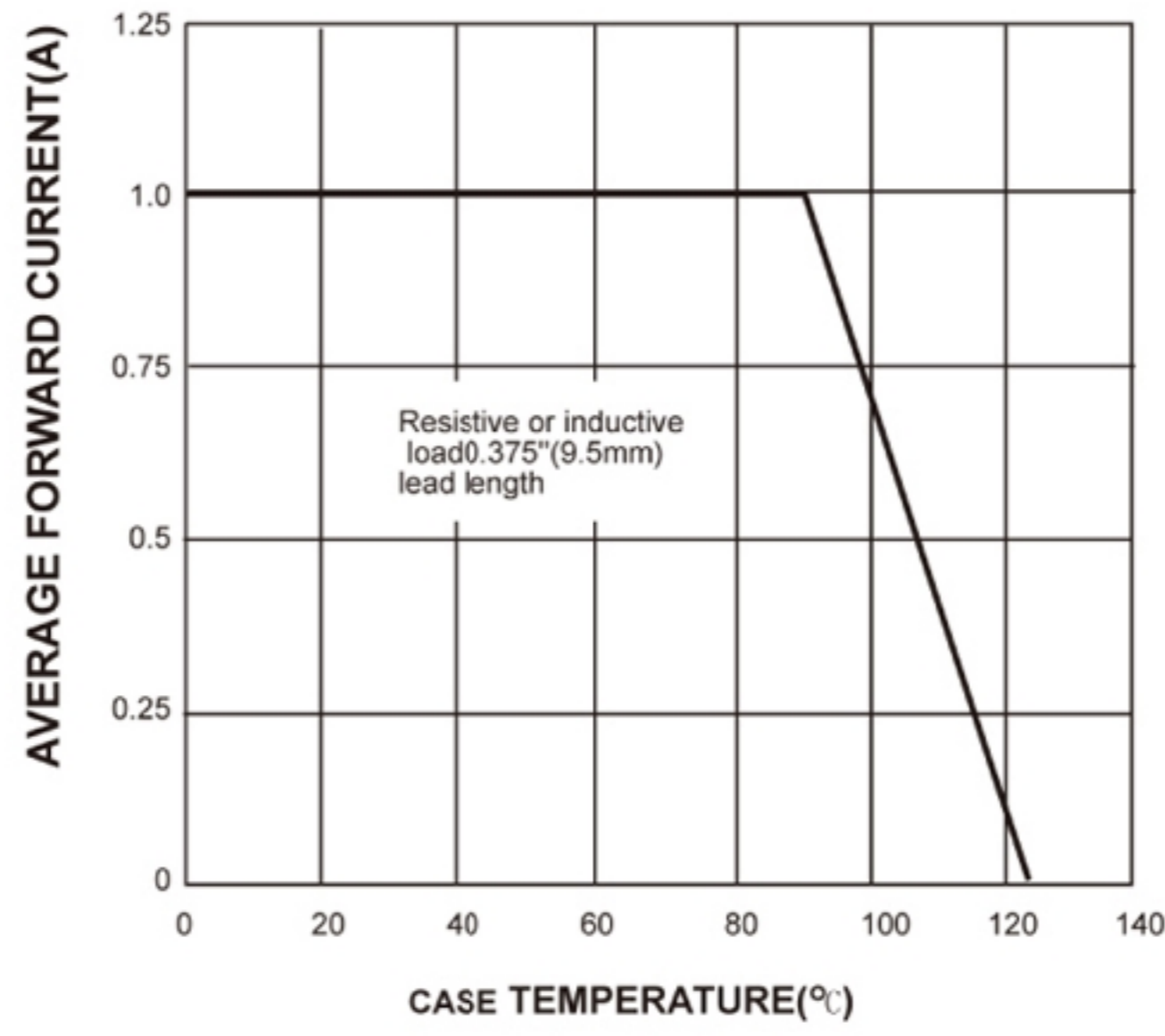


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

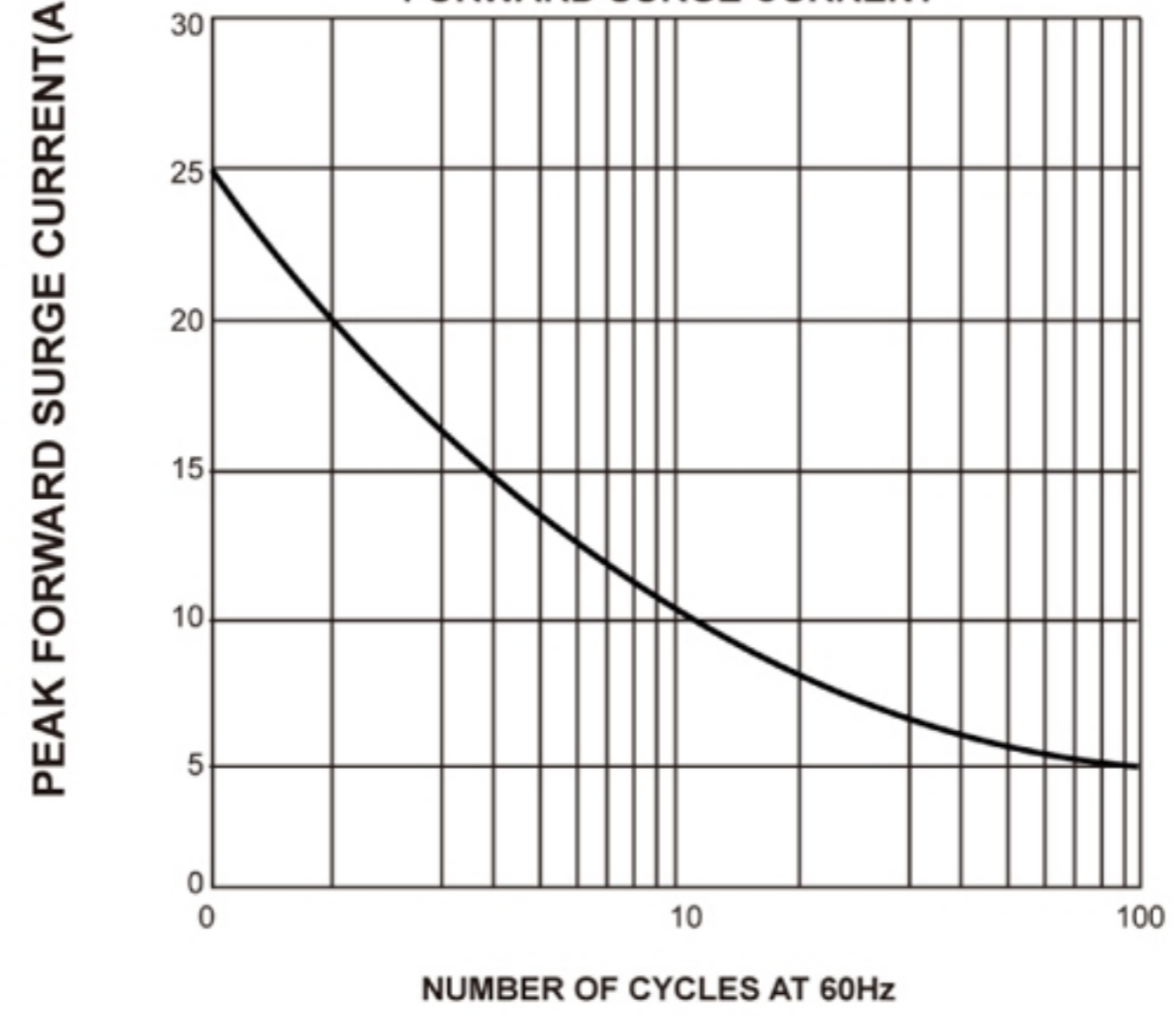


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

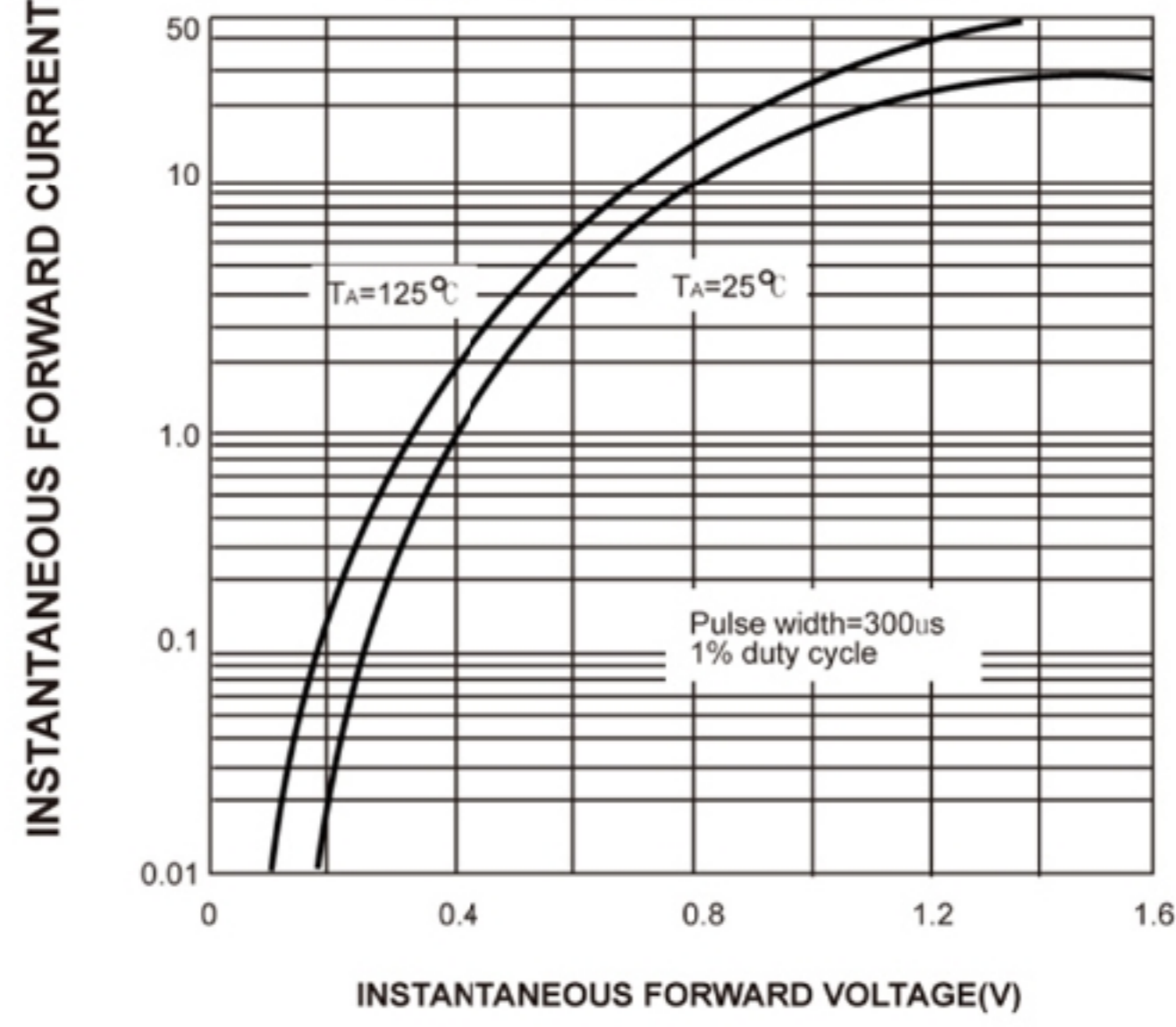


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

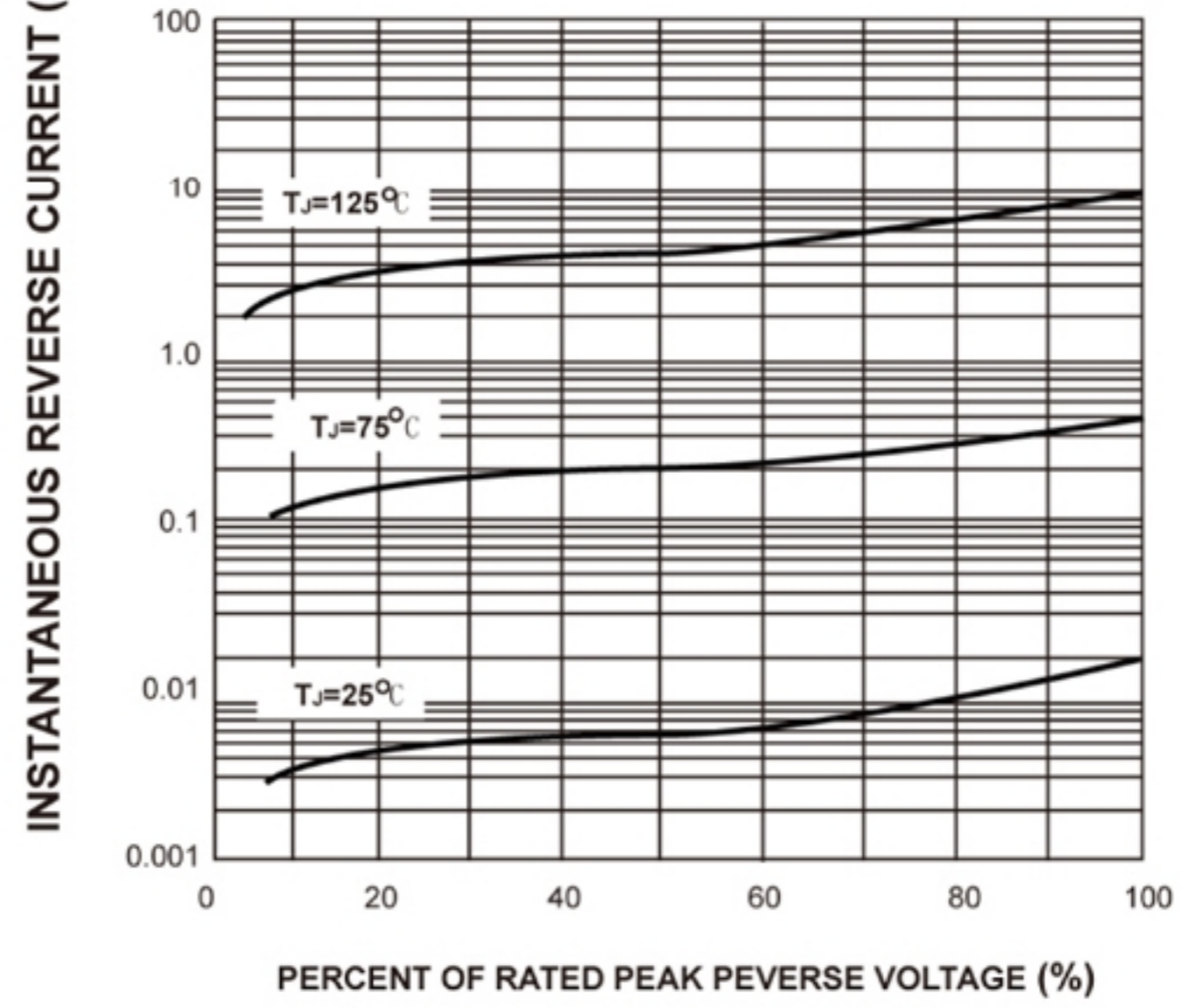


FIG. 5- TYPICAL JUNCTION CAPACITANCE

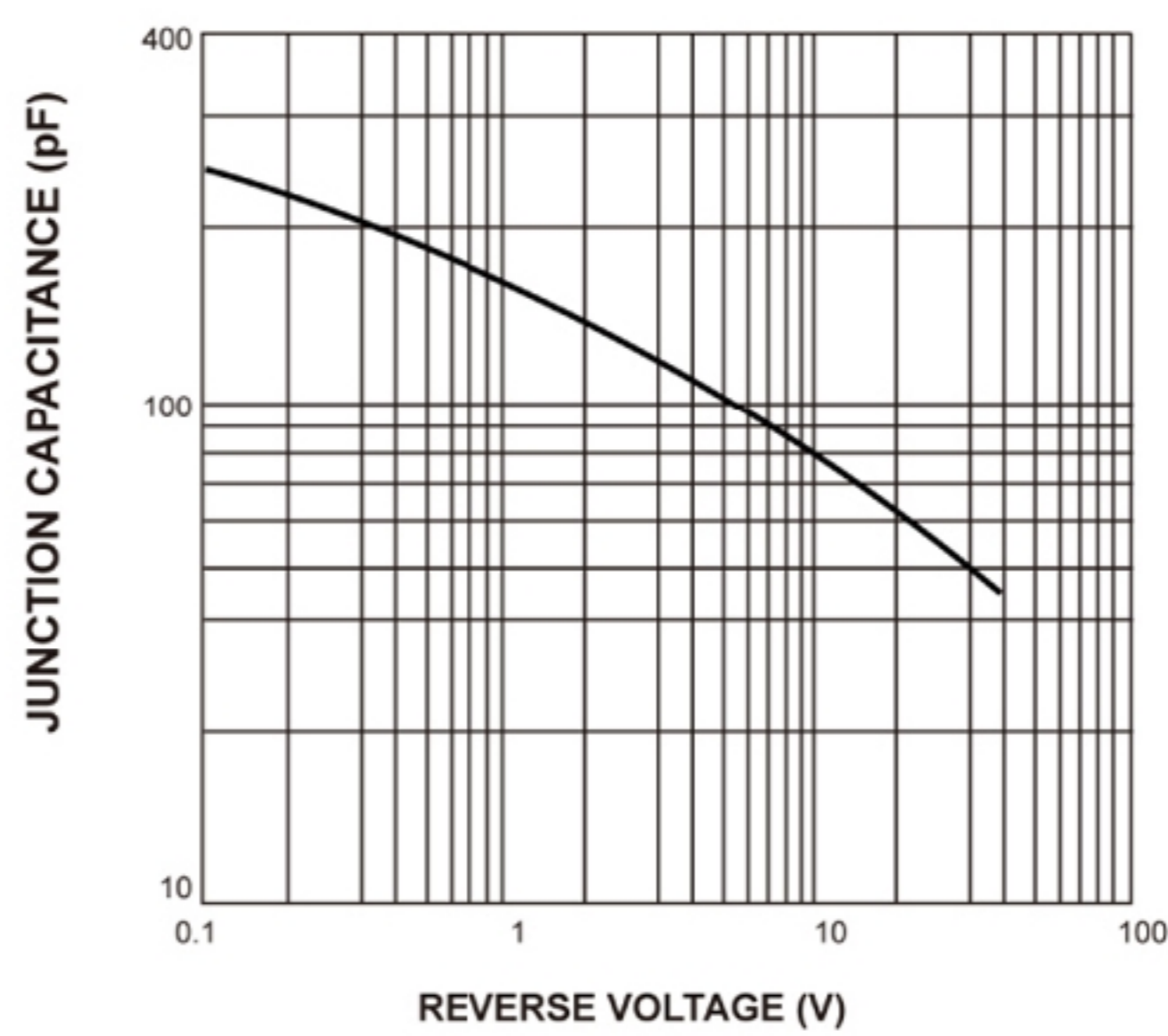


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

