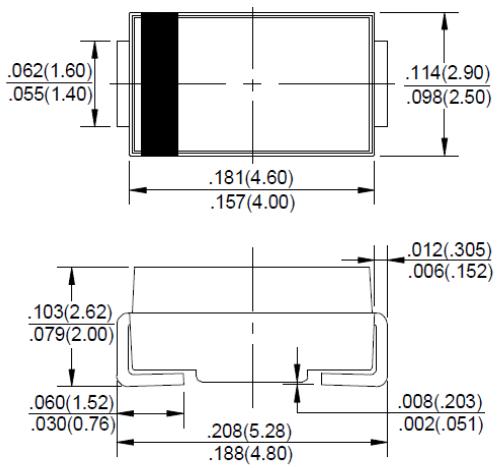
## FEATURES

- Low cost
- Diffused junction
- Low Leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon. Alcohol. Lsopropanol and similar solvents
- The plastic material carries U/L recognition 94V-O

## MECHANICAL DATA

- Case: JEDEC DO - 214AC. molded plastic body
- Terminals: Solder plated. Solderable per MIL - STD - 750. Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.003 ounce.0.093 grams
- Mounting position: Any

**SMA**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ℃ ambient temperature unless otherwise specified.

Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

| | SYMBOL | M1 | M2 | M3 | M4 | M5 | M6 | M7 | UNITS |
|---|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at $T_L$ = 110℃ | $I_{(AV)}$ | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated $T_j$ = 125℃ | $I_{FSM}$ | 30 | | | | | | | A |
| Maximum Forward Voltage at 1.0A DC | $V_F$ | **1.1** | | | | | | | V |
| Maximum Reverse Current $T_A$ = 25℃ at Rated DC Blocking Voltage $T_A$ = 100℃ | $I_R$ | **5.0** **50** | | | | | | | μA |
| Typical Junction Capacitance ( Note 1 ) | $C_j$ | **15** | | | | | | | pF |
| Typical Thermal Resistance ( Note 2 ) | $R_{\theta JA}$ | **75** | | | | | | | ℃/W |
| Operating Junction Temperature Range | $T_j$ | —55 to 125 | | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | —55 to 150 | | | | | | | ℃ |

NOTE: 1. Reverse revovery condition $I_F$=0.5A $I_R$=1.0A Irr=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Ambient.

FIG. 1 -- TYPICAL FORWARD CHARACTERISTIC

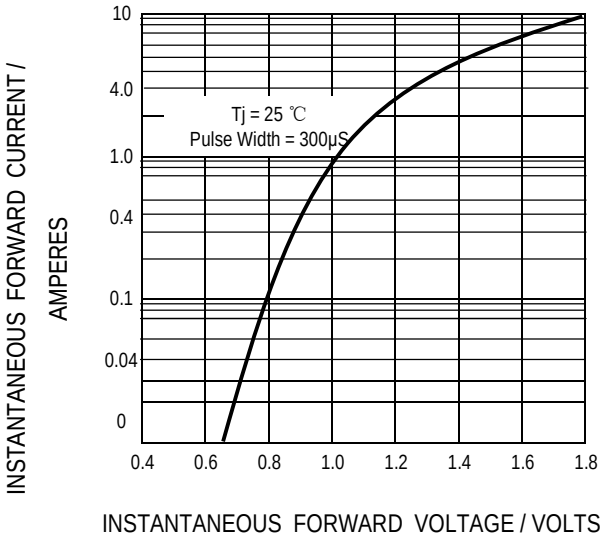



FIG. 2 -- TYPICAL JUNCTION CAPACITANCE

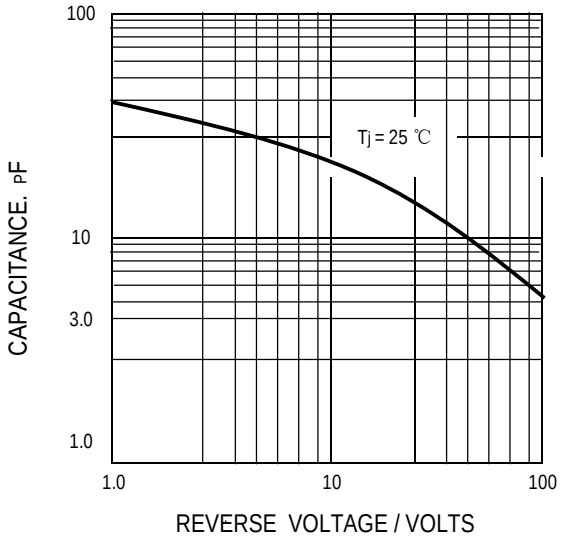



FIG. 3 -- FORWARD CURRENT DERATING CURVE

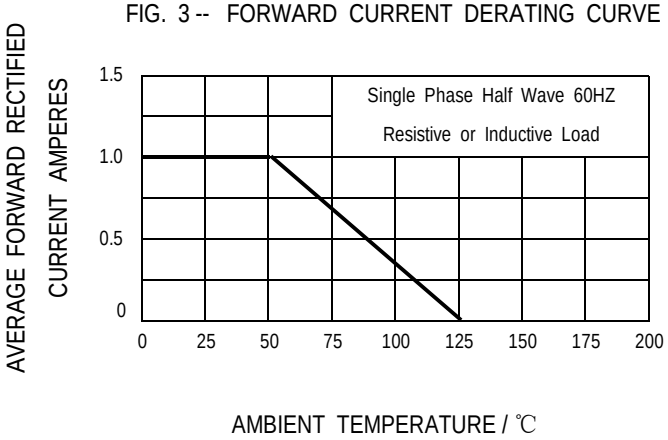



FIG. 4 -- PEAK FORWARD SURGE CURRENT

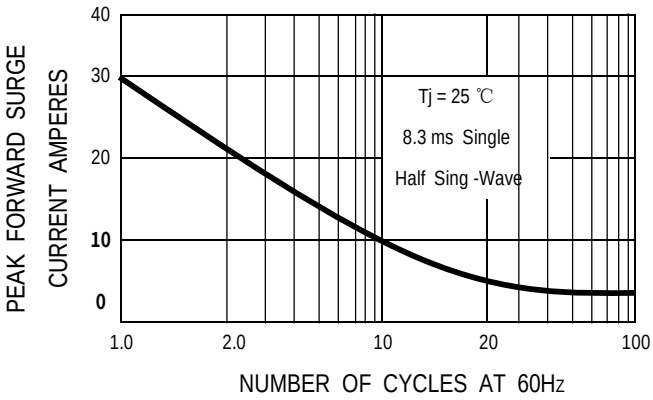



Fig.5-Typical transient thermal impedance

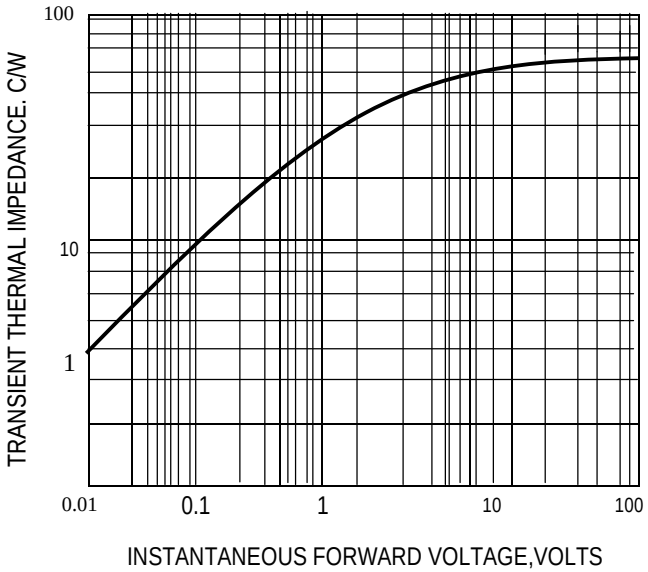
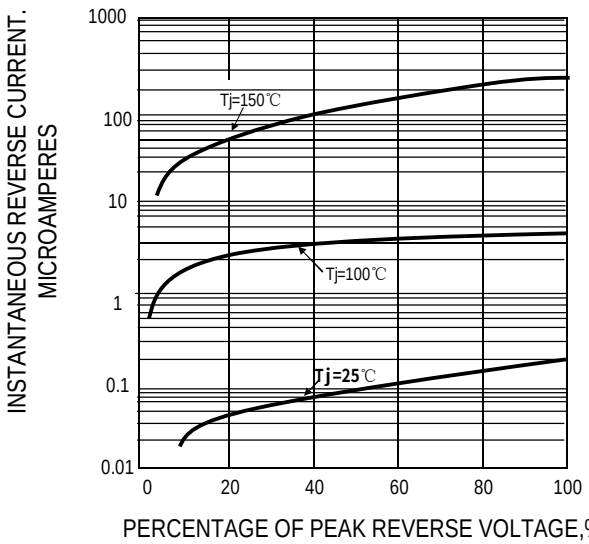



Fig.6-TYPICAL REVERSE CHARACTERISTICS



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