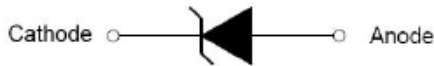


SMA

Features

Low forward voltage drop
 Guarding protection
 Glass passivated junction
 High current capability
 High efficiency operation
 Extremely low thermal resistance
 Halogen free and RoHS compliant

Mechanical Data

CASE: SMAJ(DO-214AC) Molded Plastic
 Polarity: Color band denotes cathode end
 Mounting position: ANY
 Weight: 0.0025 ounces, 0.071 gram

Maximum Ratings & Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.)

| CHARACTERISTICS | SYMBOL | SS14A | SS16A | SS110A | SS120A | UNITS |
|--|-----------------|---------------|-------|-------------|--------|--------------------|
| | Marking | SS14 | SS16 | SS110 | SS120 | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 40 | 60 | 100 | 200 | V |
| Maximum RMS voltage | V_{RWS} | 28 | 42 | 70 | 140 | V |
| Maximum DC blocking voltage | V_{DC} | 40 | 60 | 100 | 200 | V |
| Maximum average forward rectified current at $T_L=90^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave | I_{FSM} | 30 | | | | A |
| Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$ (NOTE1) | V_F | 0.55 | 0.70 | 0.85 | 0.95 | V |
| Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$ | I_R | 0.5 50.0 | | 0.1 10.0 | | m A |
| Maximum thermal resistance | $R_{\theta JL}$ | 80 | | | | $^\circ\text{C/W}$ |
| Operating temperature range | T_J | -55 ---- +125 | | | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -55 ---- +150 | | | | $^\circ\text{C}$ |

NOTE: 1. Pulse test: Pulse width 300us, duty cycle 1 %

Summary of Packing Options

| Package | Packing Description | Packing Quantity | Industry Standard |
|---------|---------------------|------------------|-------------------|
| SMA | Tape/Reel, 11" reel | 5000 | EIA-481-1 |

Ratings and Characteristic Curves

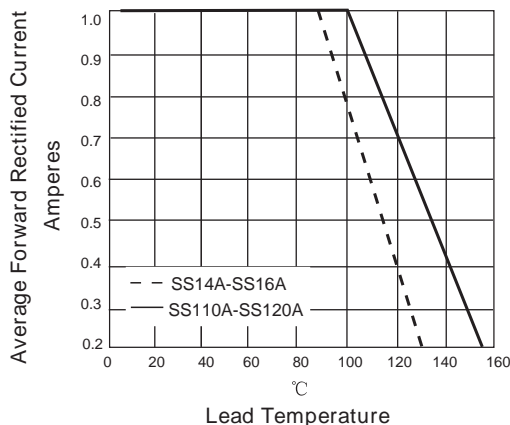


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

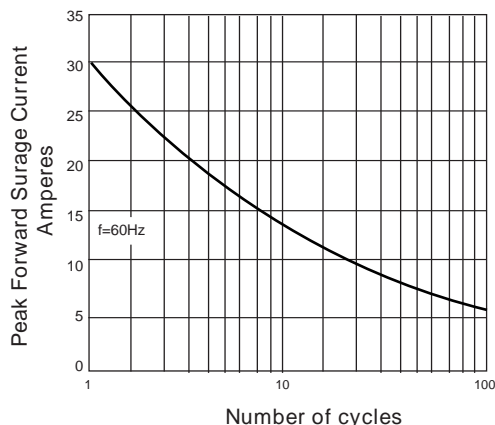


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

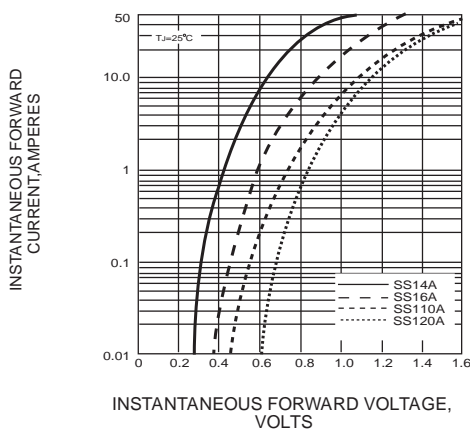


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

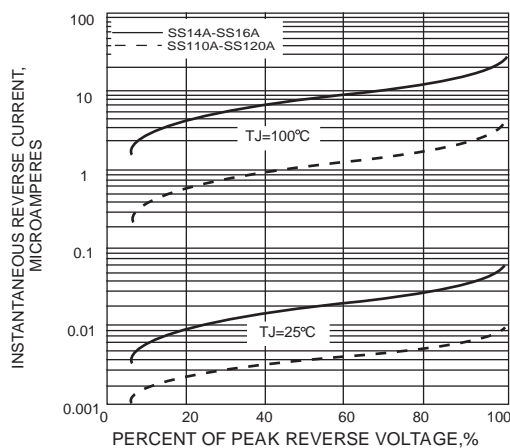


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Package Outline Dimensions: SMA(DO-214AC)

| Dim | Millimeters | | Inches | |
|-----|-------------|------|--------|-------|
| | Min | Max | Min | Max |
| L | 4.1 | 4.3 | 0.161 | 0.169 |
| D | 2.5 | 2.7 | 0.098 | 0.106 |
| D1 | 1.3 | 1.5 | 0.051 | 0.059 |
| T | 4.8 | 5.2 | 0.189 | 0.205 |
| T1 | 0.9 | 1.5 | 0.035 | 0.060 |
| d | - | 0.2 | - | 0.008 |
| H | 2.05 | 2.35 | 0.081 | 0.093 |
| H1 | 2.0 | 2.2 | 0.079 | 0.087 |

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[NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SK310-T](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [PDS3100Q-7](#) [GA01SHT18](#)
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