

M1D THRU M7D

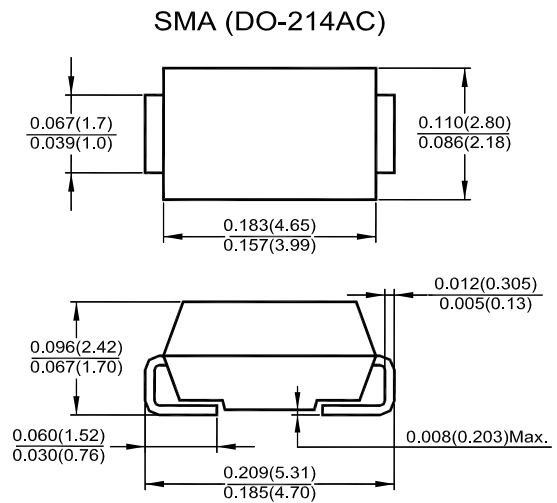
Surface Mount General Purpose Plastic Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

Mechanical Data

- **Case:** SMA (DO-214AC), molded plastic
- **Terminals:** Solder plated, solderable per MIL-STD-750, method 2026
- **Polarity:** Indicated by cathode band

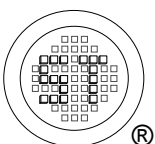


Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

| Parameter | Symbols | M1D | M2D | M3D | M4D | M5D | M6D | M7D | Units |
|--|-----------------|---------------|-----|-----|-----|-----|-----|------|--------------------|
| Maximum Repetitive 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 $T_a = 50^\circ\text{C}$ | $I_{F(AV)}$ | 1 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 30 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 1 A | V_F | 1 | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$ | I_R | 5 50 | | | | | | | μA |
| Typical Thermal Resistance, Junction to Ambient | $R_{\theta JA}$ | 55 | | | | | | | $^\circ\text{C/W}$ |
| Typical Thermal Resistance, Junction to Lead | $R_{\theta JL}$ | 25 | | | | | | | $^\circ\text{C/W}$ |
| Junction and Storage Temperature Range | T_J, T_{Stg} | - 55 to + 150 | | | | | | | $^\circ\text{C}$ |

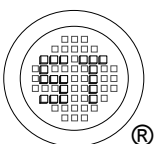
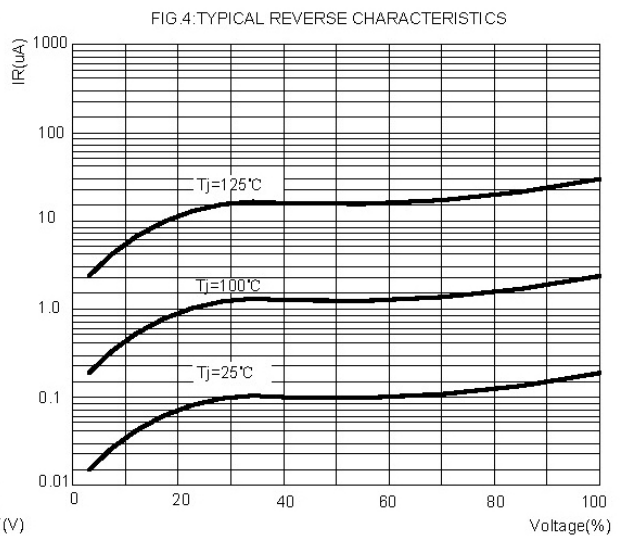
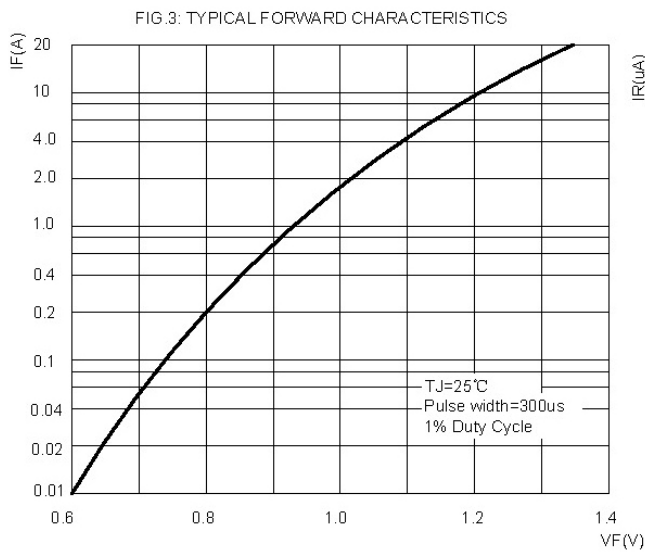
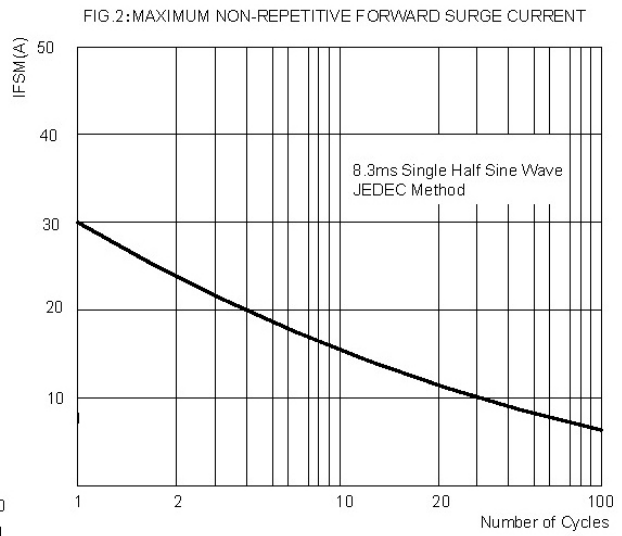
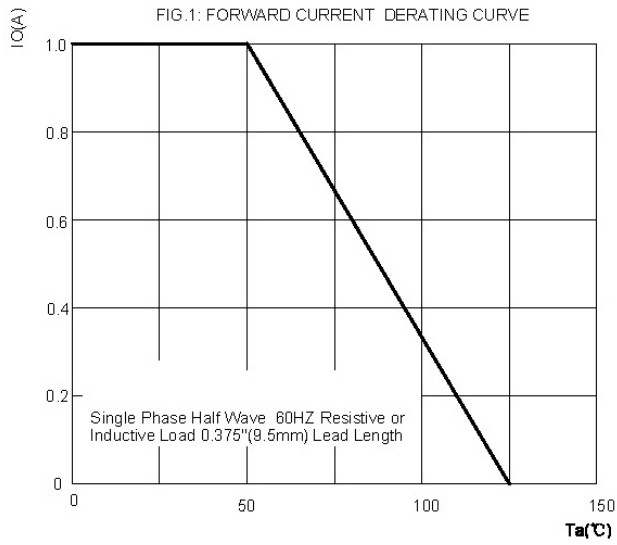


SEMTECH ELECTRONICS LTD.



Dated : 21/09/2015 YJ Rev:03

M1D THRU M7D



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ISO/TS 16949 : 2009
Certificate No. 180713009

ISO14001 : 2004
Certificate No. 7116

ISO 9001 : 2008
Certificate No. 50719410

BS-OHSAS 18001 : 2007
Certificate No. 7116

IECQ QC 080000
Certificate No. PRC-HSPM-1483

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