

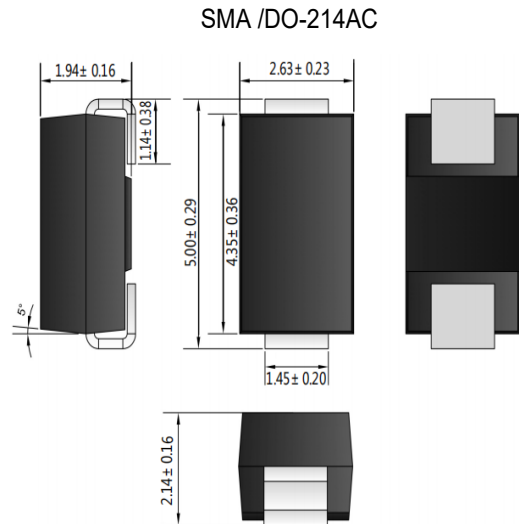
2.0A SURFACE MOUNT GENERAL PURPOSE RECTIFIER

Features

- Glass Passivated Chip
- Low Forward Voltage Drop
- Low Profile package
- High Surge Current Capability
- Easy pick and place
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: JEDEC SMA/DO-214AC Type, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.06 grams (approx)
- Lead Free: For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std



Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

| Parameter Symbol | Symbol | S2AY | Unit |
|---|---------------|---------------|---------------------------|
| Device marking code | | S2AY | |
| Maximum repetitive peak reverse voltage | VRRM | 1600 | V |
| Maximum RMS voltage | VRMS | 1120 | V |
| Maximum DC blocking voltage | VDC | 1600 | V |
| Maximum average forward rectified current | IF(AV) | 2.0 | A |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 30 | A |
| Maximum instantaneous forward voltage at 2.0A | VF | 1.15 | V |
| Maximum DC revers current $T_a=25^\circ\text{C}$ Maximum DC revers current $T_a=100^\circ\text{C}$ | IR | 1.0 10 | uA |
| Typical Thermal Resistance | R θ JC | 20 | $^\circ\text{C}/\text{W}$ |
| Typical Thermal Resistance | R θ JA | 70 | $^\circ\text{C}/\text{W}$ |
| Operating temperature range | TJ | - 55 to + 150 | $^\circ\text{C}$ |
| Storage temperature range | TSTG | - 55 to + 150 | $^\circ\text{C}$ |

Fig. 1 Forward Current Derating Curve

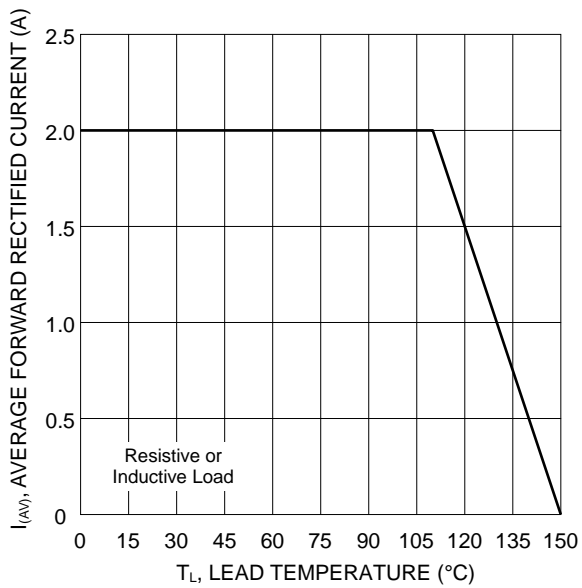


Fig. 2 Typical Forward Characteristics

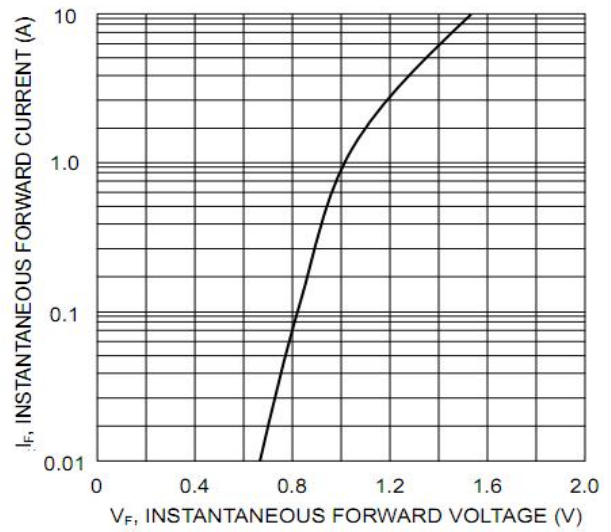


Fig. 3 Forward Surge Current Derating Curve

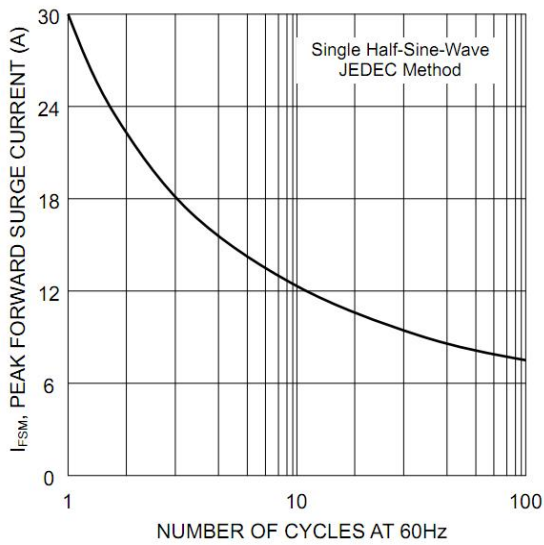
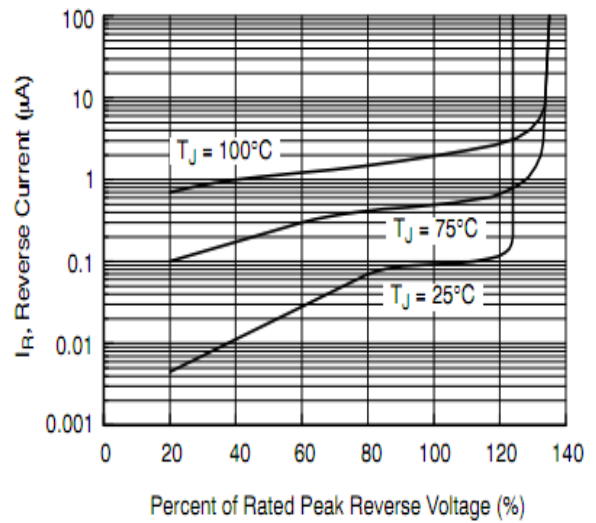
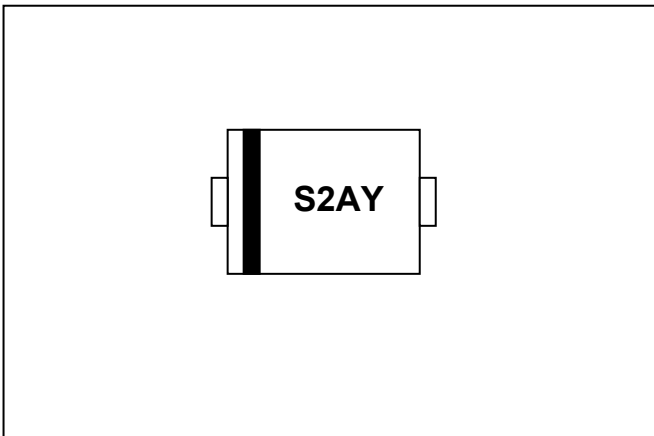
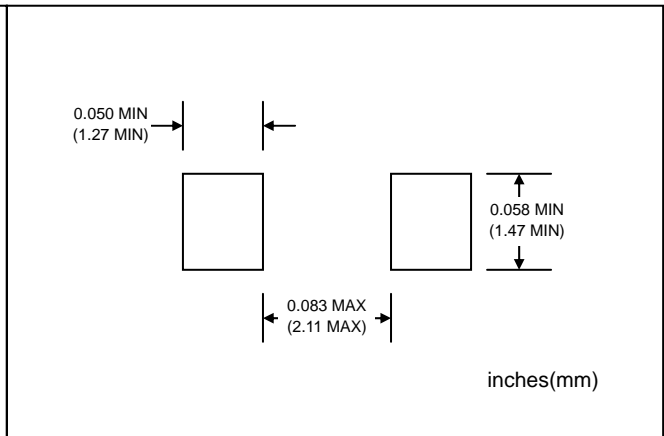
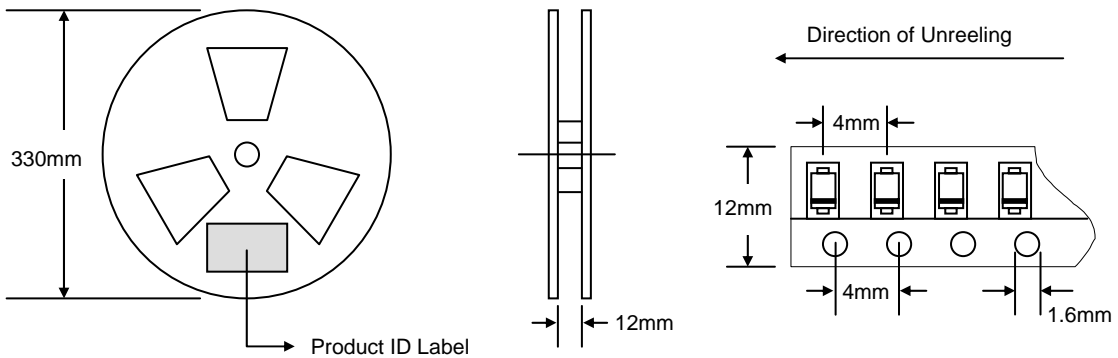


Fig. 4 Typical Reverse Characteristics



MARKING INFORMATION

RECOMMENDED FOOTPRINT

PACKAGING INFORMATION
TAPE & REEL


| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|----------------|-------------------------------|----------------|----------------------------|----------------|---------------------------|
| 330 | 5,000 | 340 x 337 x 45 | 10,000 | 370 x 370 x 420 | 80,000 | 14.0 |

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