

SS16-AU

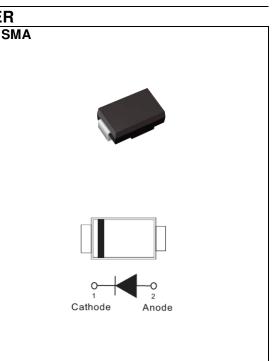


Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- Green molding compound as per IEC 61249 standard
- Lead free in compliance with EU RoHS 2.0
- AEC-Q101 qualified

Mechanical Data

- Case: JEDEC DO-214AC molded plastic
- Polarity: Color Band denotes cathode end
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0023 ounces, 0.0679 grams



Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS |
|--|------------------|-----------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 60 | V |
| Maximum RMS Voltage | V _{RMS} | 42 | V |
| Maximum DC Blocking Voltage | V _{DC} | 60 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 1 | А |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load per diode | I _{FSM} | 30 | A |
| Typical Junction Capacitance Measured at 1 MHz And Applied $V_{B} = 4V$ | CJ | 50 | pF |
| bical Thermal Resistance per diode $R_{\theta JA}^{(1)}$ $R_{\theta JA}^{(2)}$ $R_{\theta JL}^{(2)}$ | | 150 88 28 | °C/W |
| Operating Junction Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | °C |



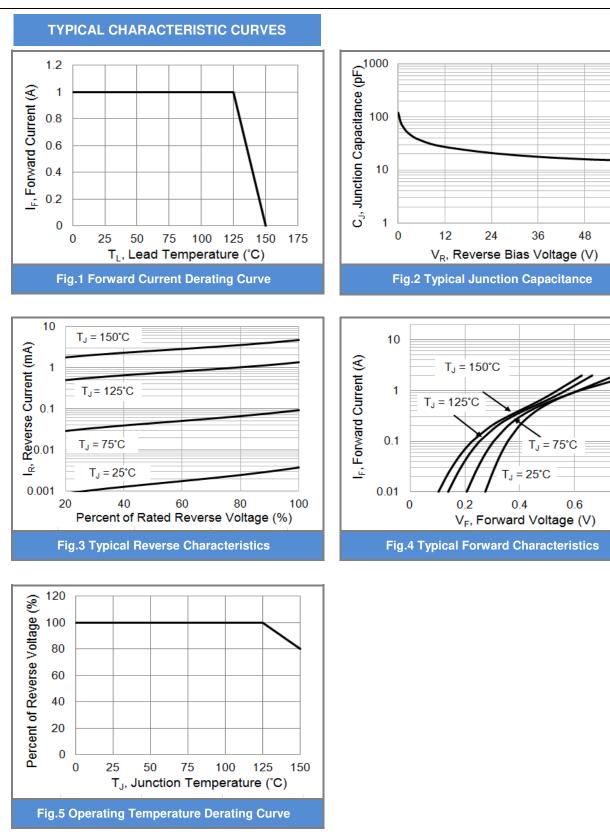
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-------------------------------|-------------------------------|--|------|------|------|-------|
| Instantaneous forward voltage | V _F | $I_F = 0.5 \text{ A}, T_J = 25 ^{\circ}\text{C}$ | - | 0.49 | - | V |
| | | $I_F = 1 \text{ A}, \text{T}_J = 25 ^{\circ}\text{C}$ | - | - | 0.7 | |
| | | $I_F = 0.5 \text{ A}, T_J = 125 ^{\circ}\text{C}$ | - | 0.45 | - | |
| | | $I_F = 1 \text{ A}, \text{T}_J = 125 ^{\circ}\text{C}$ | - | 0.57 | - | |
| Reverse current | I _R ⁽³⁾ | $V_{\rm R} = 48 \text{ V}, \text{ T}_{\rm J} = 25 ^{\circ}\text{C}$ | - | 2.5 | - | uA |
| | | $V_{R} = 60 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$ | - | - | 100 | |
| | | $V_{\rm R} = 60 \text{ V}, \text{ T}_{\rm J} = 100 ^{\circ}\text{C}$ | - | - | 5 | mA |

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 $\rm cm^2$ copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





60

0.8

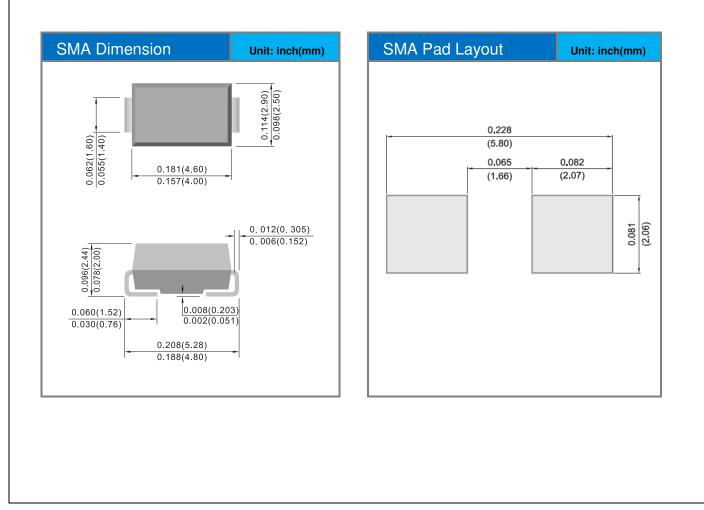




Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|----------------------|--------------|---------------------|---------|--------------|
| SS16-AU_R2_000A1 | SMA | 7500 pcs / 13" reel | SS16 | Halogen free |

Packaging Information & Mounting Pad Layout







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