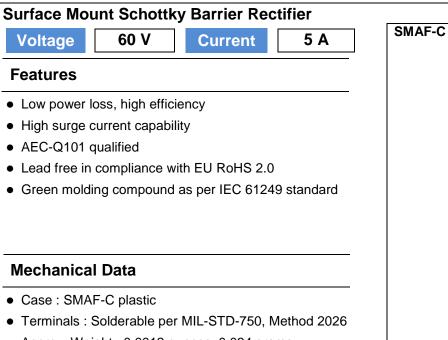
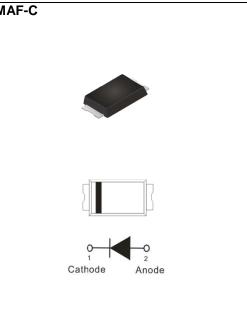
| ΡΛΝ | JIT |
|-----|-----------|
| | SEMI |
| | CONDUCTOR |





- Approx. Weight : 0.0012 ounces, 0.034 grams

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS |
|--|------------------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 60 | V |
| Maximum RMS Voltage | Vrms | 42 | V |
| Maximum DC Blocking Voltage | VDC | 60 | V |
| Maximum Average Forward Rectified Current | IF(AV) | 5 | А |
| Peak Forward Surge Current : 8.3 ms single half sine- wave superimposed on rated load per diode | I _{FSM} | 100 | A |
| Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$ | CJ | 190 | pF |
| (Note 1) | Reja | 150 | |
| Typical Thermal Resistance per diode (Note 2) | Rejc | 20 | ٥C/W |
| (Note 2) | R _{θJL} | 15 | |
| Operating Junction Temperature Range | TJ | -55 to +150 | °C |
| Storage Temperature Range | Тѕтс | -55 to +150 | ٥C |



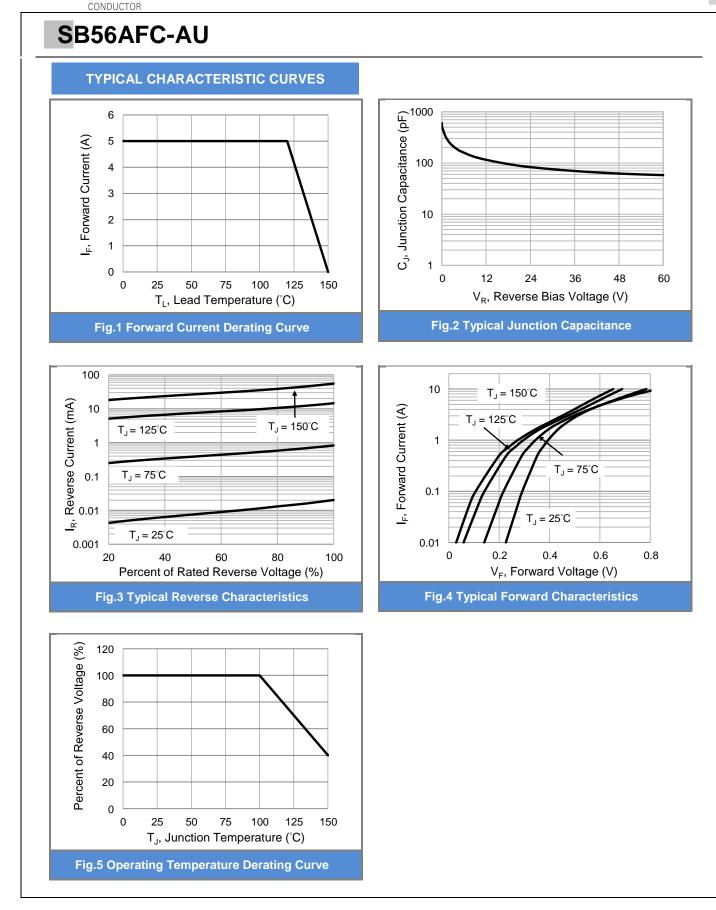
| _ | _ | |
|---|---|--|
| | | |
| | | |

Electrical Characteristics (T_A = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-------------------------------------|----------------|---|------|------|------|-------|
| Instantaneous Forward Voltage | VF | $I_F = 1 \text{ A}, T_J = 25 ^{\circ}\text{C}$ | - | 0.39 | - | V |
| | | I _F = 2 A, T _J = 25 °C | - | 0.46 | - | |
| | | I _F = 5 A, T _J = 25 °C | - | - | 0.66 | |
| | | I _F = 1 A, T _J = 125 °C | - | 0.3 | - | |
| | | I _F = 2 A, T _J = 125 °C | - | 0.35 | - | |
| | | I _F = 5 A, T _J = 125 °C | - | 0.57 | - | |
| Reverse Current ^(Note 3) | I _R | V _R = 48 V, T _J = 25 °C | - | 13 | - | uA |
| | | V _R = 60 V, T _J = 25 °C | - | - | 100 | |
| | | V _R = 60 V, T _J = 100 °C | - | - | 20 | mA |

NOTES:

- 1. Mounted on a FR-4 PCB recommended pad layout
- 2. Mounted on a FR4 PCB, single-sided copper, standard footprint
- 3. Short duration pulse test used to minimize self-heating effect



PANJ

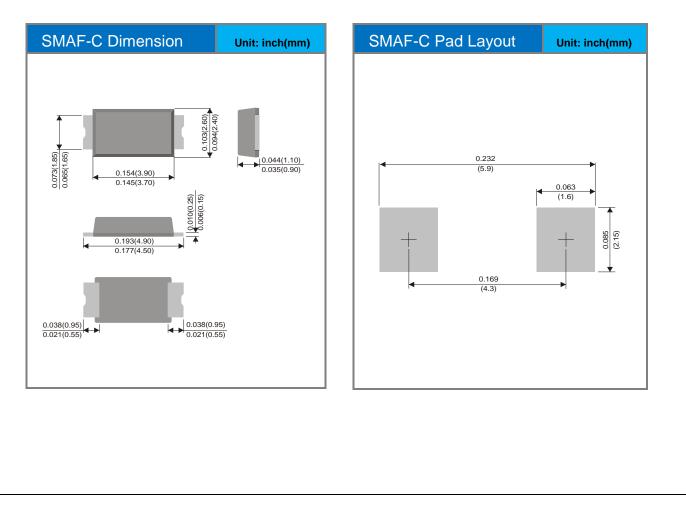
SEM



Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | Version |
|-----------------------|--------------|------------------|---------|--------------|
| SB56AFC-AU_R1_000A1 | SMAF-C | 3K pcs / 7" reel | SB56 | Halogen free |

Packaging Information & Mounting Pad Layout





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