

3.0A Surface Mount Schottky Rectifier

Features

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS compliant



SMA
(DO-214AC)



Mechanical Data

| | |
|-------------------|--|
| Case: | JEDEC DO-214AC, Molded plastic body |
| Terminals: | Solder plated, solderable per MIL-STD-750, Method 2026 |
| Polarity: | Color band denotes the cathode end |
| Weight: | 0.002 ounce, 0.064 gram |

Maximum Ratings & Electrical Characteristics (T_{Ambient}=25°C unless noted otherwise)

| Symbols | Description | SS 32A | SS 33A | SS 34A | SS 35A | SS 36A | SS 38A | SS 39A | SS 310A | Unit | Conditions |
|----------------------------|---|--------|--------|--------|--------|--------|--------|--------|---------|-------|---|
| | Marking Code | S32 | S33 | S34 | S35 | S36 | S38 | S39 | S310 | | |
| VRRM | Maximum Repetitive Peak Reverse Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V | |
| VRMS | Maximum RMS Voltage | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | V | |
| VDC | Maximum DC Blocking Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V | |
| IF(AV) | Maximum Average Forward Rectified Current (FIG.1) | 3.0 | | | | | | | | A | TL (see Fig.1) |
| IFSM | Peak Forward Surge Current | 100 | | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |
| VF | Maximum Instantaneous Forward Voltage at 3.0A | 0.50 | | | 0.75 | | 0.85 | | | V | Note1 |
| IR | Maximum DC Reverse Current at Rated DC Blocking Voltage | 0.5 | | | | | | | | mA | TA=25 °C |
| | | 20 | | | | 10 | | | | | TA=100 °C |
| RθJA RθJL | Typical Thermal Resistance | 55 | | | | | | | | ° C/W | Note 2 |
| | | 12 | | | | | | | | | |

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SS32A - SS310A

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|------------------|--------------------------------------|-------------|--------|--------|-------------|--------|--------|--------|---------|------|------------|--|
| T _J | Operating Junction Temperature Range | -55 to +125 | | | -55 to +150 | | | | | °C | | |
| T _{STG} | Storage Temperature Range | -55 to +150 | | | | | | | | | °C | |

- Note:** 1. Pulse test: 300µs pulse width, 1% duty cycle.
 2. PCB mounted with 0.55" x 0.55" (14mm x 14mm) copper pads.

Typical Characteristics Curves

Fig.1- Typical Forward Current Derating Curve

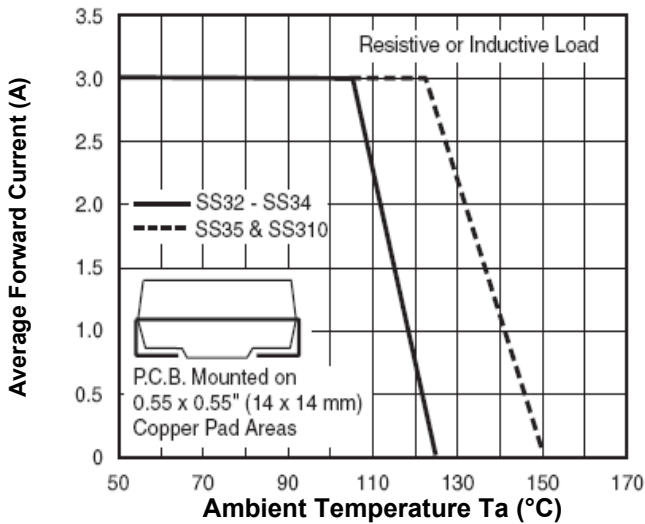


Fig.2- Max. Non-Repetitive Peak Forward Surge Current

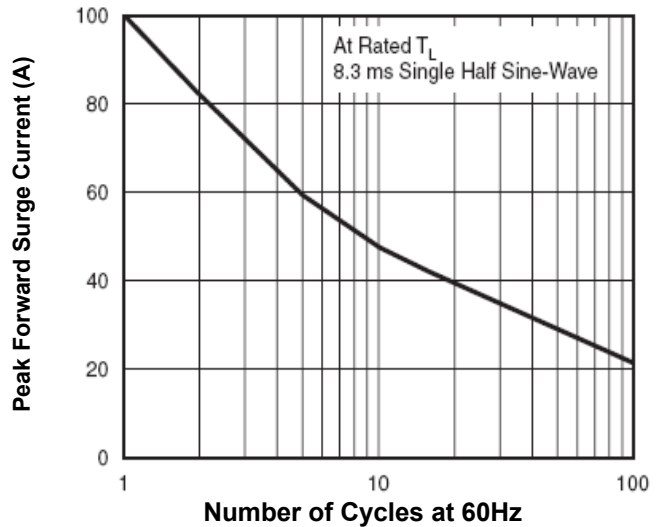


Fig.3- Typical Instantaneous Forward Characteristics

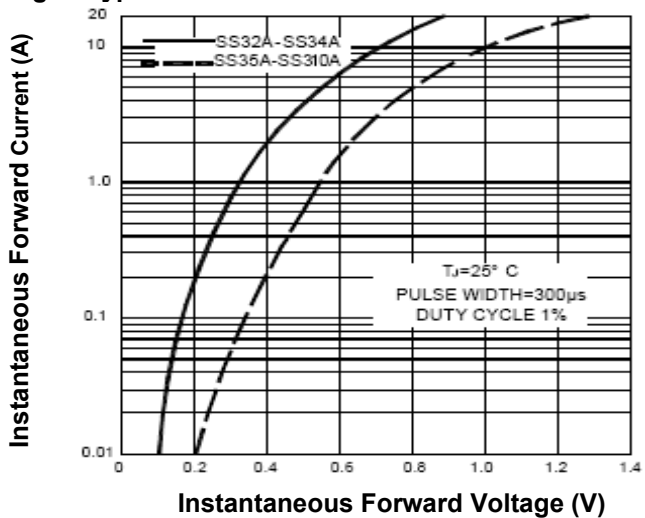
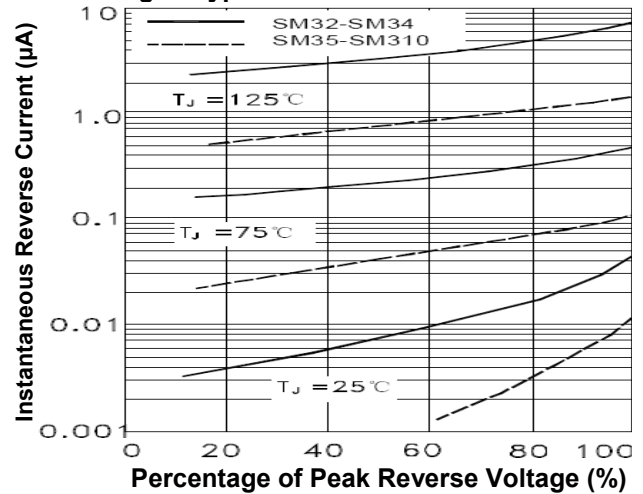


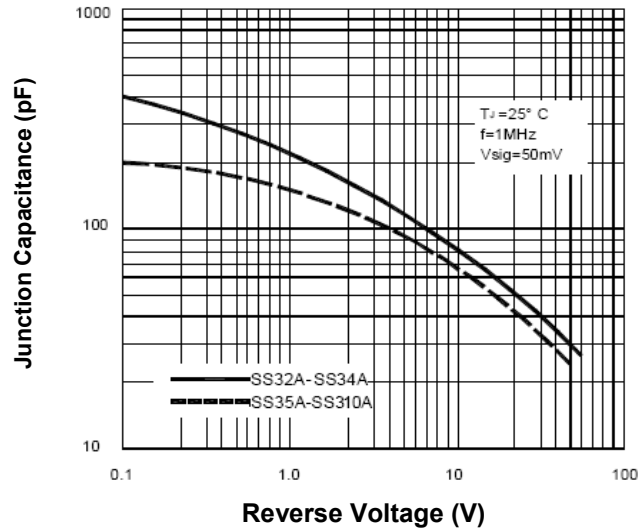
Fig.4- Typical Reverse Characteristics



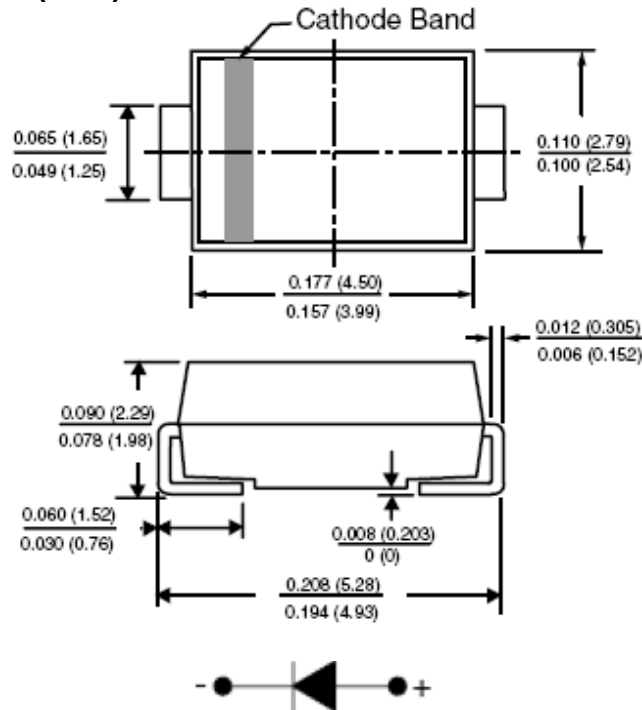
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SS32A - SS310A

Fig.5- Typical Junction Capacitance



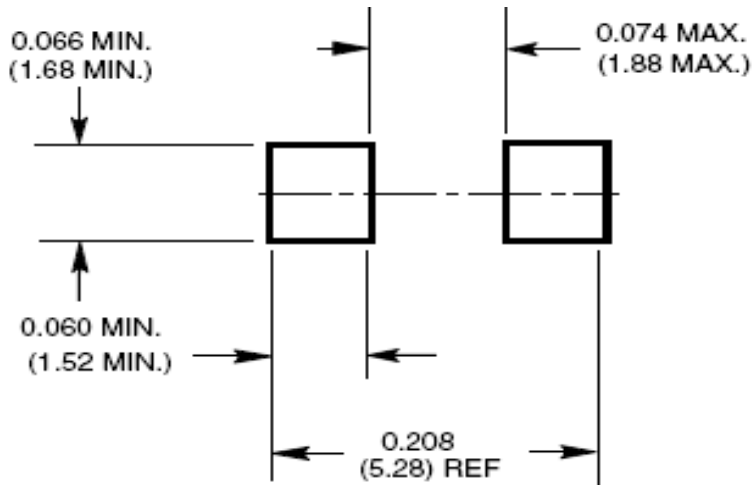
Dimensions in inch (mm)



3.0A Surface Mount Schottky Rectifier

SS32A - SS310A

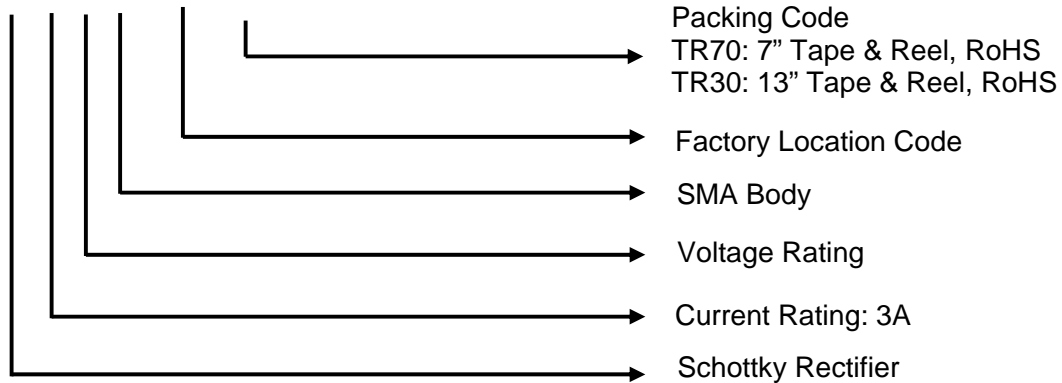
Soldering Pad in inch (mm)



SMA

How to order:

SS 3 x A - xx - xx



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