

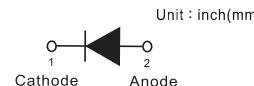
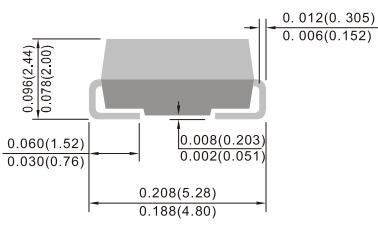
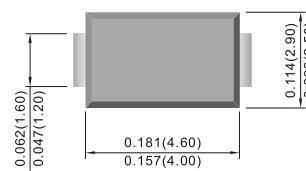


Surface Mount Schottky Rectifier

Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- AEC-Q101 Qualified
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

DO-214AC (SMA)



Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- **Package:** DO-214AC (SMA)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS | | | | | | | | |
|---|------------------|------|-------|-------|-------|-------|-------|-----------|-----------|--------|-----------|
| | | | 32A-Q | 33A-Q | 34A-Q | 35A-Q | 36A-Q | 38A-Q | 310A-Q | 315A-Q | 320A-Q |
| Repetitive peak reverse voltage | V _{RRM} | V | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 |
| Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1) | I _O | A | | | | | | | 3.0 | | |
| Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Ta=25°C | I _{FSM} | A | | | | | | | 70 | | |
| Storage temperature | T _{stg} | °C | | | | | | | -55 ~+150 | | |
| Junction temperature | T _j | °C | | | | | | -55 ~+150 | | | -55 ~+175 |

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | TEST CONDITIONS | SS | | | | | | | | |
|--|------------------|------|------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| | | | | 32A-Q | 33A-Q | 34A-Q | 35A-Q | 36A-Q | 38A-Q | 310A-Q | 315A-Q | 320A-Q |
| Maximum instantaneous forward voltage drop per diode | V _F | V | I _{FM} = 3.0A | 0.55 | | | | 0.70 | | 0.85 | | 0.95 |
| Maximum DC reverse current at rated DC blocking voltage per diode@ V _{RM} =V _{RRM} | I _{RRM} | mA | Ta=25°C | | | | 0.50 | | | 0.10 | | |
| | | | Ta=100°C | | | | 10 | | | 5.0 | | |

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | SS | | | | | | | | |
|--------------------|-------------------|------|-------|-------|-------|-------|-------|------------------|--------|--------|--------|
| | | | 32A-Q | 33A-Q | 34A-Q | 35A-Q | 36A-Q | 38A-Q | 310A-Q | 315A-Q | 320A-Q |
| Thermal resistance | R _{θJ-A} | °C/W | | | | | | 55 ¹⁾ | | | |
| | R _{θJ-L} | | | | | | | 17 ¹⁾ | | | |

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



■ Characteristics (Typical)

