

M1 thru M7

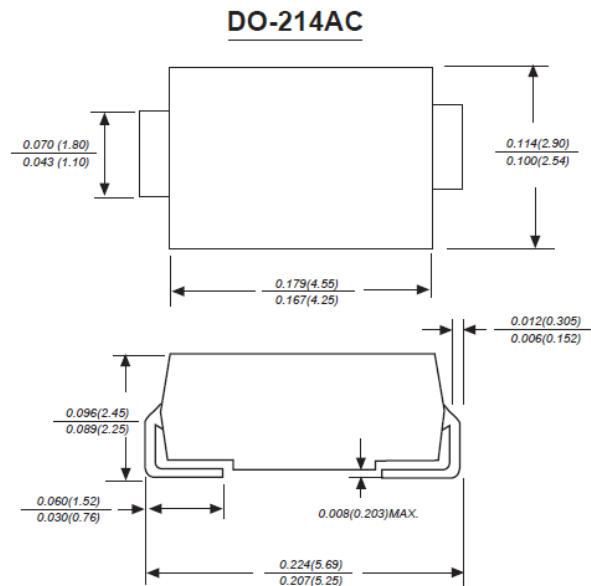
Surface Mount General Rectifier

◆ Features

- » The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- » For surface mounted applications.
- » Low leakage current
- » Built-in strain relief, ideal for automated placement
- » High forward surge current capability
- » Soldering:
250°C/10 seconds at terminals.

◆ Mechanical Data

- » **Case:** DO-214AC molded plastic body
- » **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- » **Polarity:** Color band denotes cathode end
- » **Weight:** 0.083 grams
- » **Standard Package:** TAPING IN REEL



Dimensions in inches and (millimeters)

◆ Electrical Characteristic

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| PARAMETER | SYMBOL | M1 | M2 | M3 | M4 | M5 | M6 | M7 | UNITS |
|--|---------|-------------|-----|-----|-----|-----|-----|------|-------|
| Maximum repetitive peak reverse voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at TL=55°C | I(AV) | 1.0 | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 30.0 | | | | | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | VF | 1.1 | | | | | | | Volts |
| Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C | IR | 5.0 50.0 | | | | | | | uA |
| Typical junction capacitance (NOTE 1) | CJ | 15.0 | | | | | | | pF |
| Typical thermal resistance (NOTE 2) | RqJA | 75.0 | | | | | | | °C/W |
| Operating junction and storage temperature range | TJ,TSTG | -55 to +150 | | | | | | | °C |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

◆ Rating And Characteristic Curves

