

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

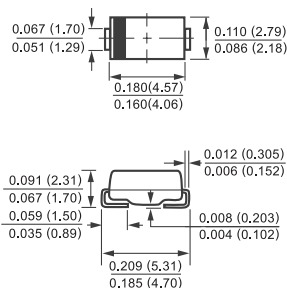
VOLTAGE RANGE 20 to 40 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

SUPER LOW V_F

DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | FM120L | FM140L | UNITS |
|--|--------|--------------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 40 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 28 | Volts |
| Maximum DC Blocking Voltage | VDC | 20 | 40 | Volts |
| Maximum Average Forward Rectified Current at Derating Lead Temperature | IO | 1.0 | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 40 | | Amps |
| Typical Thermal Resistance (Note 1) | RθJA | 50 | | °C/W |
| Typical Junction Capacitance (Note 2) | CJ | 110 | | pF |
| Operating Temperature Range | TJ | -65 to + 125 | | °C |
| Storage Temperature Range | TSTG | -65 to + 150 | | °C |

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | FM120L | FM140L | UNITS |
|---|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 1.0A DC | VF | 0.30 | 0.32 | Volts |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | IR | 1.0 | | mAmps |
| | | 10 | | mAmps |

NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Monuted with 0.2X0.2" (5.0X5.0mm²) copper pad area.