

FM120 THRU FM1100

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

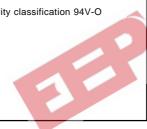
VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.09 gram

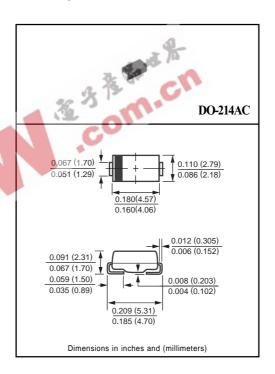
MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ 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 | FMB120 | FMB130 | FMB140 | FMB150 | FMB160 | FMB180 | FMB1100 | UNITS |
|---|--------|---------------------------|--------|--------|--------|--------|--------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 21 | 28 | 35 | 42 | 56 | 70 | Volts |
| Maximum DC Blocking Voltage | VDC | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum Average Forward Rectified Current at Derating Lead Temperature | lo | 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) | Cı | 110 | | | | | | | pF |
| Operating Temperature Range | TJ | -65 to + 125 -65 to + 150 | | | | | ٥C | | |
| Storage Temperature Range | Тѕтс | -65 to + 150 | | | | | | | °C |

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

| CHARACTERISTICS | | SYMBOL | FMB120 FMB130 FMB140 | FMB150 FMB160 | FMB180 FMB1100 | UNITS | | |
|--|-------------|--------|----------------------|---------------|----------------|-------|--|--|
| Maximum Instantaneous Forward Voltage at 1.0A DC | | VF | .55 | .70 | .85 | Volts | | |
| Maximum Average Reverse Current | @TA = 25°C | le. | 1.0 | | | | | |
| at Rated DC Blocking Voltage | @TA = 100°C | I IR | 10 | | | | | |

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" (5.0X5.0mm 2) copper pad area.

RATING AND CHARACTERISTIC CURVES (FM120 THRU FM1100)

