

FM320L THRU FM3200L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 3.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.24 gram

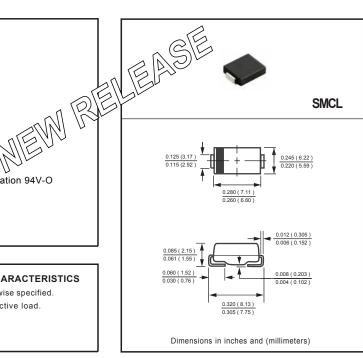


MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

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|--|------------------|--------------|--------|--------|--------|--------|--------|---------|---------|---------|-------|
| RATINGS | SYMBOL | FM320L | FM330L | FM340L | FM350L | FM360L | FM380L | FM3100L | FM3150L | FM3200L | UNITS |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | Volts |
| Maximum Average Forward Rectified Current at Ambient Temperature | I _O | 3.0 | | | | | | | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 80 | | | | | | | | | Amps |
| Typical Thermal Resistance (Note 1) | R _{θJA} | 55 | | | | | | | | | |
| | RθJL | 17 | | | | | | | | | °C/W |
| Typical Junction Capacitance (Note 2) | CJ | 200 | | | | | | | | | pF |
| Operating Temperature Range | TJ | 150 | | | | | | | | ٥C | |
| Storage Temperature Range | T _{STG} | -55 to + 150 | | | | | | | | | ٥C |

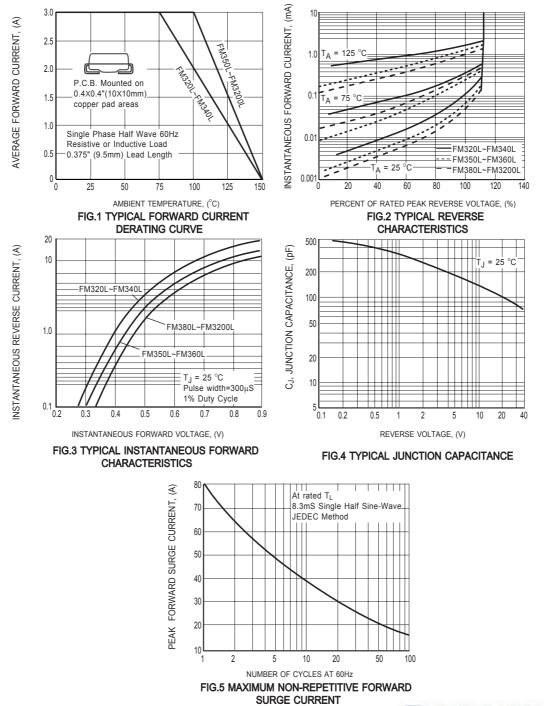
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | FM320L | FM330L | FM340L | FM350L | FM360L | FM380L | FM3100L | FM3150L | FM3200L | UNITS |
|--|-------------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-------|
| Maximum Instantaneous Forward Voltage at 3.0A DC | | VF | .55 | | | .75 | | .85 | | | | Volts |
| Maximum Average Reverse Current | @T _A = 25°C | 1- | 0.2 | | | | | | | | | mΑ |
| at Rated DC Blocking Voltage | @T _A = 100°C | 'R | 2 | | | | | | | | | mA |

NOTES: 1. Thermal Resistance: Mounted on PCB.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

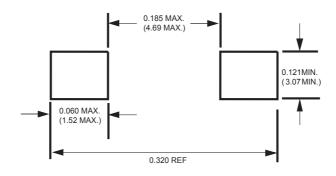
2006-11

RATING AND CHARACTERISTICS CURVES (FM320L THRU FM3200L)





Mounting Pad Layout



Dimensions in inches and (millimeters)



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