

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

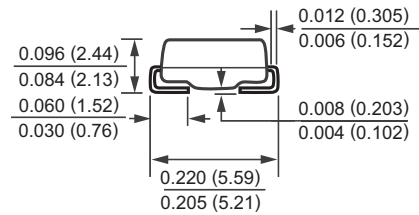
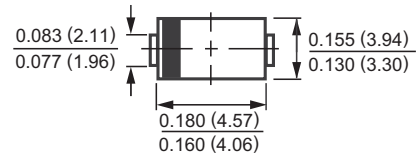
VOLTAGE RANGE 20 to 40 Volts CURRENT 2.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.098 gram

LOW VF

DO-214AA



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 | FM220M | FM230M | FM240M | UNITS |
|---|------------------|--------------|--------|--------|------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 20 | 30 | 40 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 21 | 28 | Volts |
| Maximum DC Blocking Voltage | VDC | 20 | 30 | 40 | Volts |
| Maximum Average Forward Rectified Current at Derating Lead Temperature | IO | 2.0 | | | Amps |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 60 | | | Amps |
| Typical Current Squared Time | I ² T | 14.94 | | | A ² S |
| Typical Thermal Resistance (Note 1, 2) | RθJA | 75 | | | °C/W |
| | RθJL | 17 | | | |
| Operating Temperature Range | TJ | -55 to + 125 | | | °C |
| Storage Temperature Range | TSTG | -55 to + 150 | | | °C |

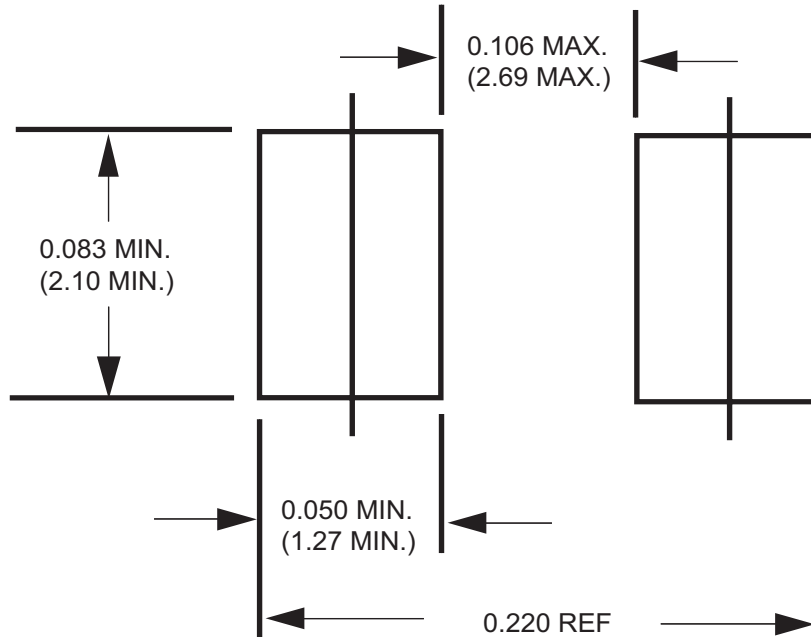
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | FM220M | FM230M | FM240M | UNITS |
|--|-------------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 2.0A DC | VF | 0.44 | | | Volts |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | @TA = 25°C | 1.0 | | | mAmps |
| | @TA = 100°C | 10 | | | mAmps |

NOTES : 1. Thermal Resistance (Junction to Ambient).
2. P.C.B Monuted with 0.2X0.2" (5.0X5.0mm²) copper pad area.

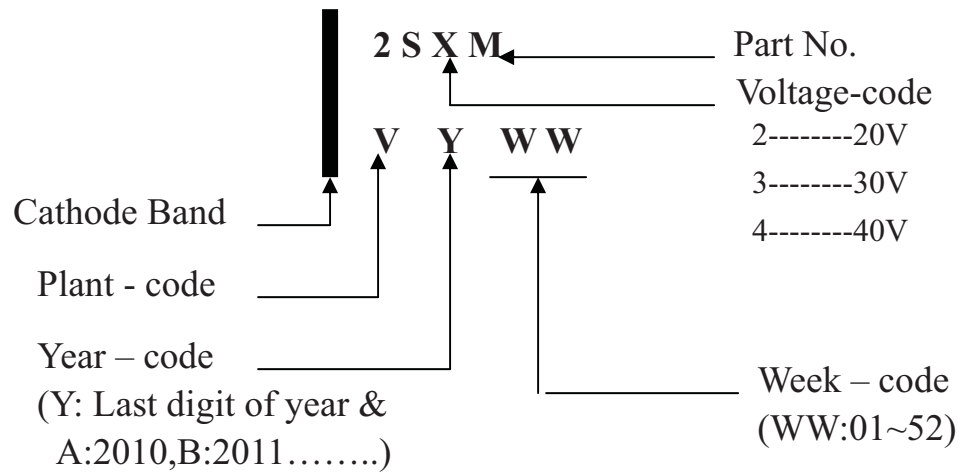
2016-9
REV:C2

Mounting Pad Layout



Dimensions in inches and (millimeters)

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

| PACKAGE | PACKING CODE | EA PER REEL | EA PER INNER BOX | COMPONENT SPACE (mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|-------------|------------------|----------------------|-----------------|---------------|------------------|---------------|------------------|
| SMB | -T | 500 | 2,000 | --- | --- | 178 | 390*205*310 | 16,000 | --- |
| SMB | -W | 3,000 | 6,000 | --- | --- | 330 | 360*355*360 | 48,000 | 13.90 |