

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**

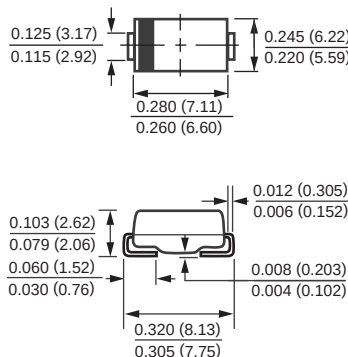
**VOLTAGE RANGE 20 to 40 Volts CURRENT 4.0 Ampere**

**FEATURES**

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

**LOW VF**

**DO-214AB**



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)

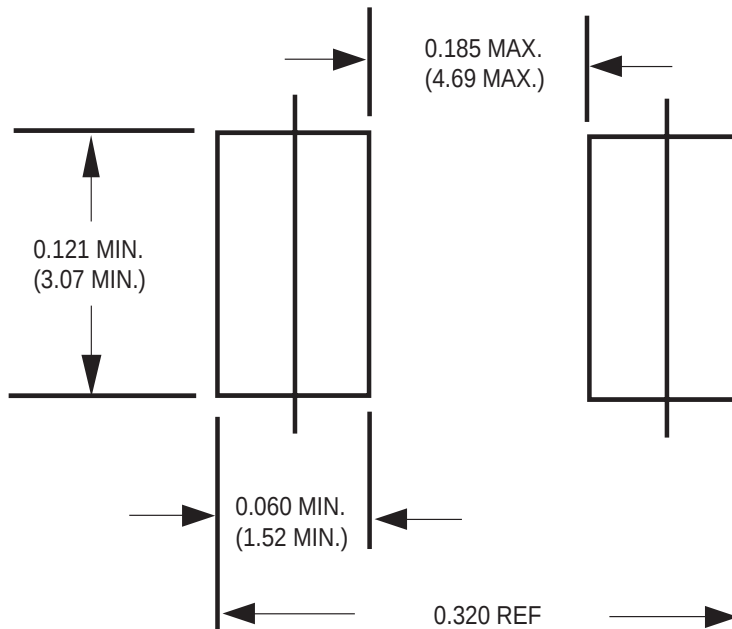
| RATINGS                                                                                              | SYMBOL | FM420M       | FM430M | FM440M | UNITS |
|------------------------------------------------------------------------------------------------------|--------|--------------|--------|--------|-------|
| 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<br>at Derating Lead Temperature                            | IO     | 4.0          |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | IFSM   | 150          |        |        | Amps  |
| Typical Thermal Resistance (Note 1, 2)                                                               | RθJA   | 50           |        |        | °C/W  |
|                                                                                                      | RθJL   | 14           |        |        | °C/W  |
| 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 | FM420M | FM430M | FM440M | UNITS |
|-----------------------------------------------------------------|--------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 4.0A DC                | VF     | 0.42   |        |        | Volts |
| Maximum Average Reverse Current<br>at Rated DC Blocking Voltage | IR     | 1.0    |        |        | mAmps |
|                                                                 |        | 10     |        |        | mAmps |

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

## Mounting Pad Layout



Dimensions in inches and (millimeters)