

FM320-A THRU FM3100-A

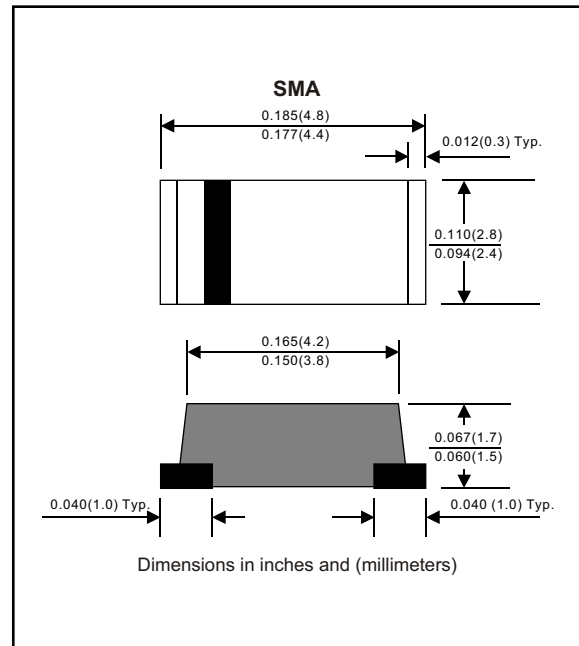
Silicon epitaxial planer type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Low leakage current

Mechanical data

Case : Moulded plastic, JEDECDO-214AC
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.0015 ounce, 0.05 gram



MAXIMUM RATINGS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|---|-----------|------|------|------|-------------------------------|
| Forward rectified current | See Fig.1 | I_O | | | 3.0 | A |
| Forward surge current | 8.3ms single half sine-wave superimposed on rate load (JEDEC methode) | I_{FSM} | | | 80 | A |
| Reverse current | $V_R = V_{RRM}$ $T_A = 25^{\circ}\text{C}$ | I_R | | | 0.5 | mA |
| | $V_R = V_{RRM}$ $T_A = 125^{\circ}\text{C}$ | | | | 20 | mA |
| Thermal resistance | Junction to ambient | R_{QJA} | | 80 | | $^{\circ}\text{C} / \text{w}$ |
| Diode junction capacitance | f=1MHz and applied 4vDC reverse voltage | C_J | | 250 | | pF |
| Storage temperature | | T_{STG} | -55 | | +150 | $^{\circ}\text{C}$ |

| SYMBOLS | MARKING CODE | V_{RRM}^{*1} (V) | V_{RMS}^{*2} (V) | V_R^{*3} (V) | V_F^{*4} (V) | Operating temperature ($^{\circ}\text{C}$) |
|----------|--------------|-----------------------|-----------------------|-------------------|-------------------|---|
| FM320-A | SS32 | 20 | 14 | 20 | 0.50 | -55 to +125 |
| FM330-A | SS33 | 30 | 21 | 30 | | |
| FM340-A | SS34 | 40 | 28 | 40 | | |
| FM350-A | SS35 | 50 | 35 | 50 | 0.75 | -55 to +150 |
| FM360-A | SS36 | 60 | 42 | 60 | | |
| FM380-A | SS38 | 80 | 56 | 80 | 0.85 | |
| FM3100-A | S310 | 100 | 70 | 100 | | |

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (FM320-A THRU FM3100-A)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

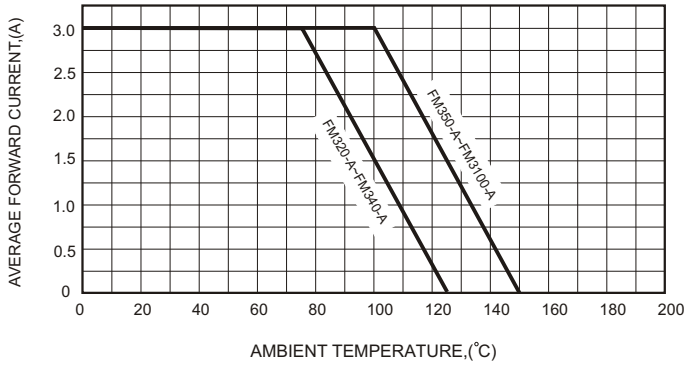


FIG.2-TYPICAL FORWARD CHARACTERISTICS

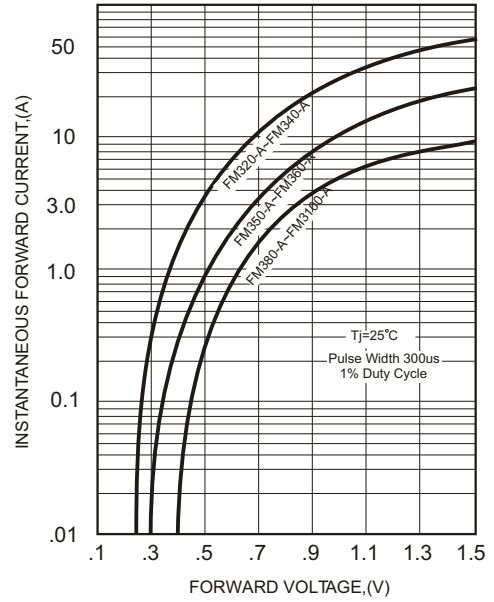


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

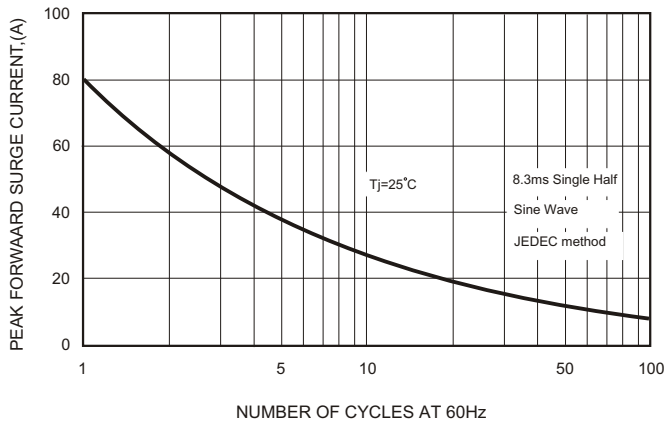


FIG.4-TYPICAL JUNCTION CAPACITANCE

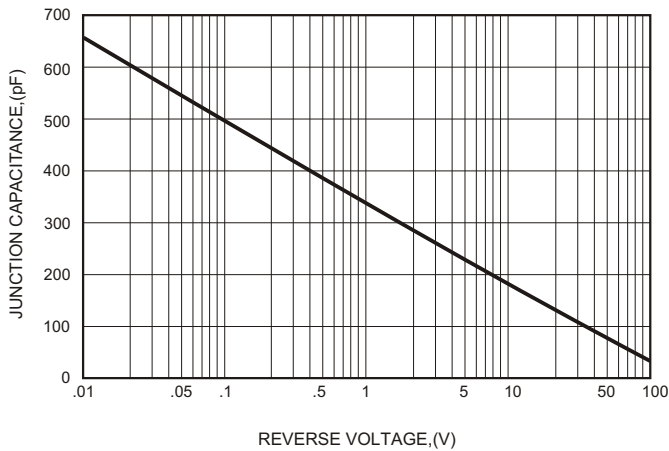


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

