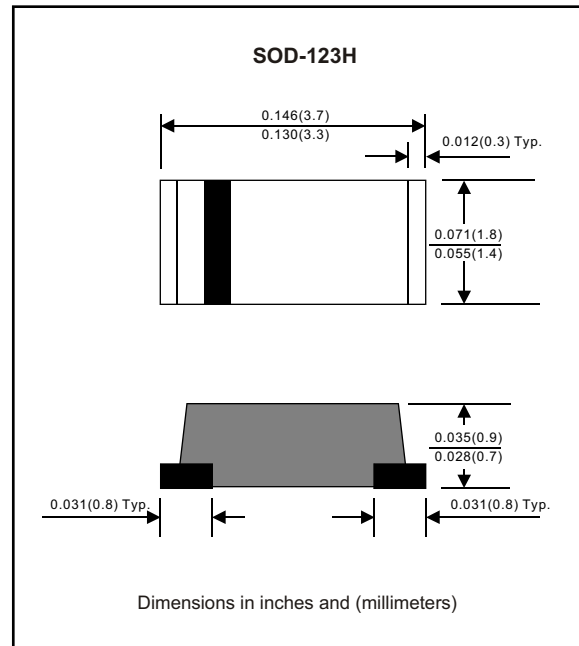


FM4001-MH THRU FM4007-MH

Glass passivated 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 : Molded plastic, JEDEC SOD-123H
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.0393 gram

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

| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|---|-----------|------|------|------|-----------------|
| Forward rectified current | See Fig.2 | I_O | | | 1.0 | A |
| Forward surge current | 8.3ms single half sine-wave superimposed on rate load (JEDEC methode) | I_{FSM} | | | 25 | A |
| Reverse current | $V_R = V_{RRM} T_A = 25^{\circ}C$ | I_R | | | 5.0 | μA |
| | $V_R = V_{RRM} T_A = 100^{\circ}C$ | | | | 50 | μA |
| Thermal resistance | Junction to ambient | R_{JA} | | 60 | | $^{\circ}C / w$ |
| Diode junction capacitance | $f=1MHz$ and applied 4vDC reverse voltage | C_J | | 15 | | pF |
| Storage temperature | | T_{STG} | -55 | | +150 | $^{\circ}C$ |

| SYMBOLS | MARKING CODE | V_{RRM}^{*1} (V) | V_{RMS}^{*2} (V) | V_R^{*3} (V) | V_F^{*4} (V) | Operating temperature ($^{\circ}C$) |
|-----------|--------------|-----------------------|-----------------------|-------------------|-------------------|--|
| FM4001-MH | A1 | 50 | 35 | 50 | 1.1 | -55 to +150 |
| FM4002-MH | A2 | 100 | 70 | 100 | | |
| FM4003-MH | A3 | 200 | 140 | 200 | | |
| FM4004-MH | A4 | 400 | 280 | 400 | | |
| FM4005-MH | A5 | 600 | 420 | 600 | | |
| FM4006-MH | A6 | 800 | 560 | 800 | | |
| FM4007-MH | A7 | 1000 | 700 | 1000 | | |

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

RATING AND CHARACTERISTIC CURVES (FM4001-MH THRU FM4007-MH)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

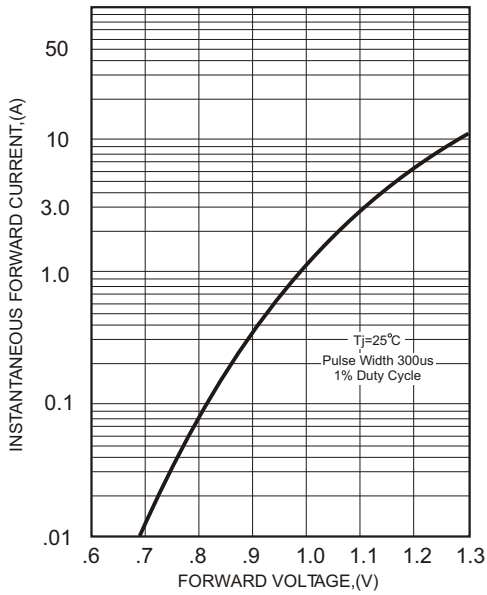


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

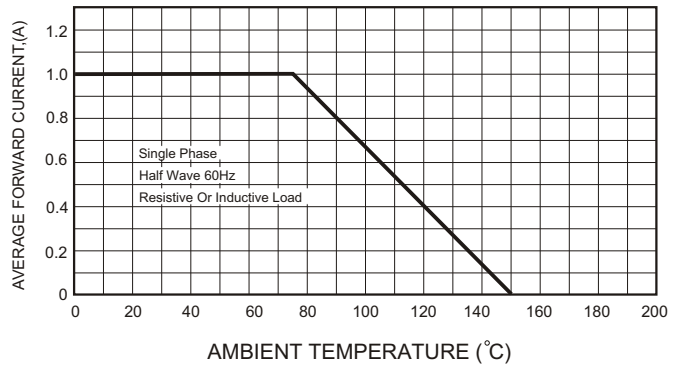


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

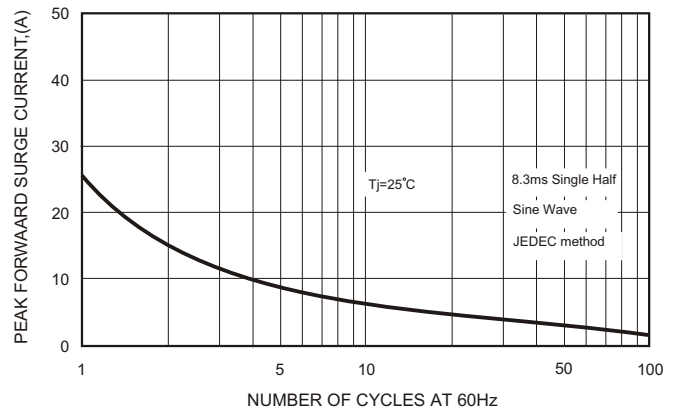


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

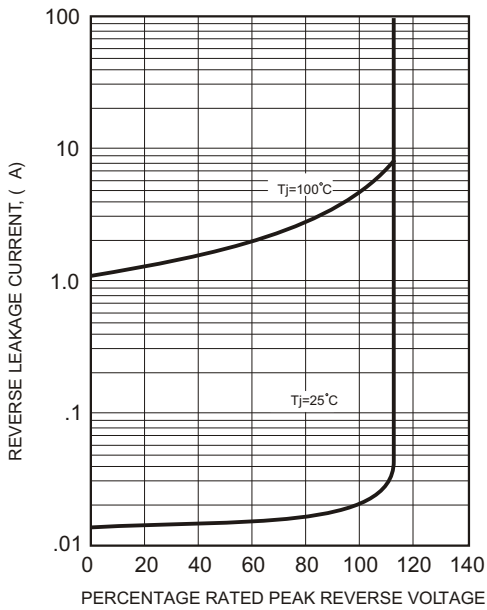


FIG.5-TYPICAL JUNCTION CAPACITANCE

