

# FM201-L THRU FM207-L

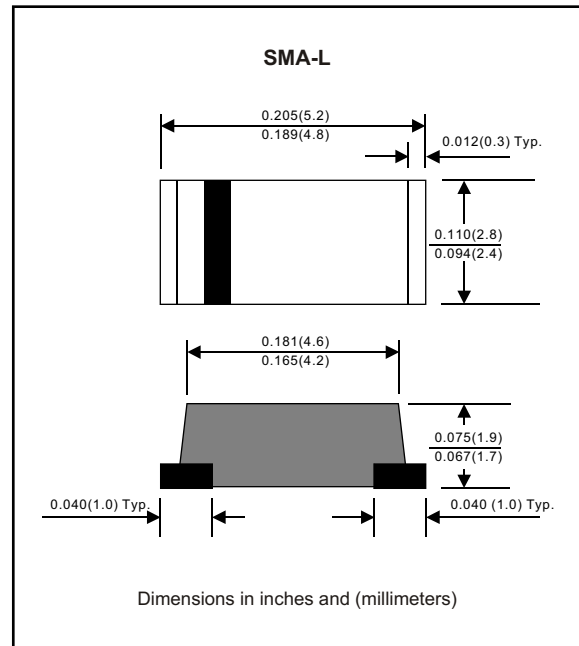
Glass passivated type

## 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 : Moulded plastic, JEDEC DO-214AC  
 Terminals : Solder plated, solderable per ML-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.2   | $I_0$     |      |      | 2.0  | A                             |
| Forward surge current      | 8.3ms single half sine-wave superimposed on rate load (JEDEC methode) | $I_{FSM}$ |      |      | 50   | A                             |
| Reverse current            | $V_R = V_{RRM}$ $T_A = 25^{\circ}\text{C}$                            | $I_R$     |      |      | 5.0  | $\mu\text{A}$                 |
|                            | $V_R = V_{RRM}$ $T_A = 125^{\circ}\text{C}$                           |           |      |      | 125  | $\mu\text{A}$                 |
| Thermal resistance         | Junction to ambient   | $R_{JA}$  |      | 53   |      | $^{\circ}\text{C} / \text{W}$ |
| Diode junction capacitance | f=1MHz and applied 4vDC reverse voltage                               | $C_J$     |      | 30   |      | pF                            |
| Storage temperature        |   | $T_{STG}$ | -55  |      | +150 | $^{\circ}\text{C}$            |

| SYMBOLS | MARKING CODE | $V_{RRM}^{*1}$<br>(V) | $V_{RMS}^{*2}$<br>(V) | $V_R^{*3}$<br>(V) | $V_F^{*4}$<br>(V) | Operating temperature<br>( $^{\circ}\text{C}$ ) |
|---------|--------------|-----------------------|-----------------------|-------------------|-------------------|---|
| FM201   | A21          | 50                    | 35                    | 50                | 1.1               | -55 to +150                                     |
| FM202   | A22          | 100                   | 70                    | 100               |                   |   |
| FM203   | A23          | 200                   | 140                   | 200               |                   |   |
| FM204   | A24          | 400                   | 280                   | 400               |                   |   |
| FM205   | A25          | 600                   | 420                   | 600               |                   |   |
| FM206   | A26          | 800                   | 560                   | 800               |                   |   |
| FM207   | A27          | 1000                  | 700                   | 1000              |                   |   |

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

# RATING AND CHARACTERISTIC CURVES (FM201-L THRU FM207-L)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

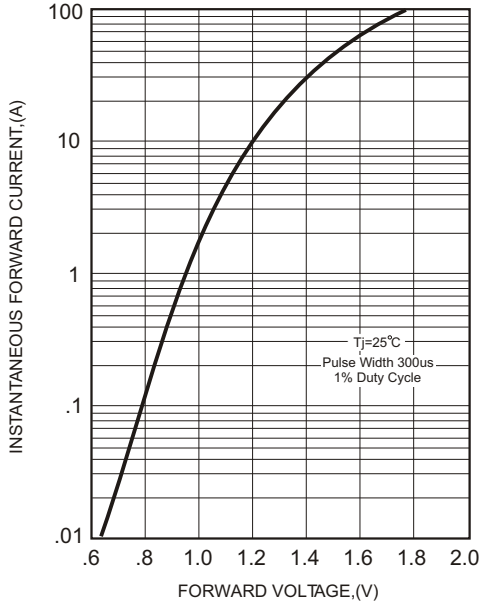


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

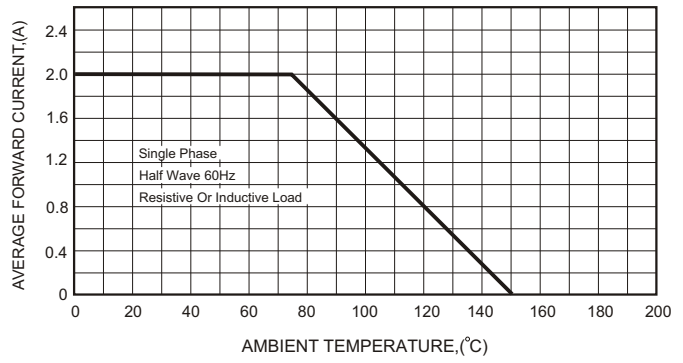


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

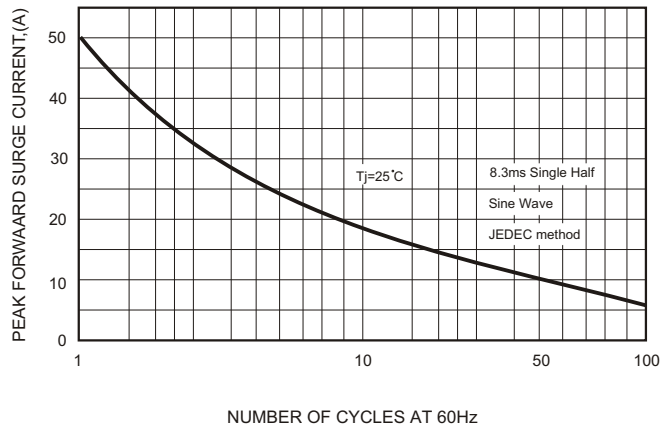


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

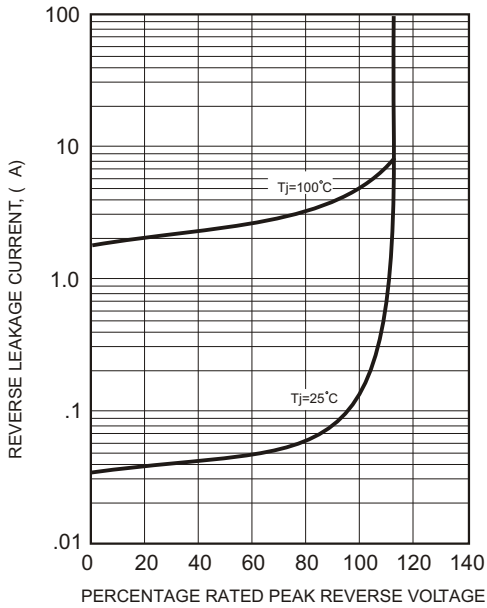


FIG.5-TYPICAL JUNCTION CAPACITANCE

