

FM220-L THRU FM2100-L

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

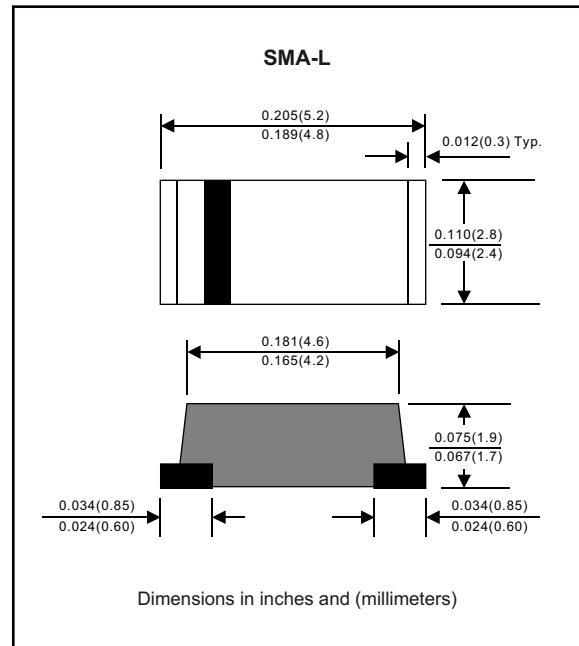
Case : Molded plastic, JEDEC DO-214AC

Terminals : Solder plated, solderable per ML-STD-750, Method 2026

Polarity : Indicated by cathode band

Mounting Position : Any

Weight : 0.0017 ounce, 0.057 gram



MAXIMUM RATINGS (AT T_A=25°C unless otherwise noted)

| PARAMETER | CONDITIONS | Symbol | MIN. | TYP. | MAX. | UNIT |
|----------------------------|---|------------------|------|------|------|--------|
| Forward rectified current | See Fig.1 | I _O | | | 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°C | I _R | | | 0.5 | mA |
| | V _R = V _{RRM} T _A = 125°C | | | | 10 | mA |
| Thermal resistance | Junction to ambient | R _{JA} | | 75 | | °C / w |
| Diode junction capacitance | f=1MHz and applied 4vDC reverse voltage | C _J | | 160 | | pF |
| Storage temperature | | T _{STG} | -55 | | +150 | °C |

| SYMBOLS | MARKING CODE | V _{RRM} *1 (V) | V _{RMS} *2 (V) | V _R *3 (V) | V _F *4 (V) | Operating temperature (°C) |
|----------|--------------|----------------------------|----------------------------|--------------------------|--------------------------|-------------------------------|
| FM220-L | SK22 | 20 | 14 | 20 | 0.50 | -55 to +125 |
| FM230-L | SK23 | 30 | 21 | 30 | | |
| FM240-L | SK24 | 40 | 28 | 40 | | |
| FM250-L | SK25 | 50 | 35 | 50 | 0.70 | -55 to +150 |
| FM260-L | SK26 | 60 | 42 | 60 | | |
| FM280-L | SK28 | 80 | 56 | 80 | 0.85 | |
| FM2100-L | S210 | 100 | 70 | 100 | | |

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (FM220-L THRU FM2100-L)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

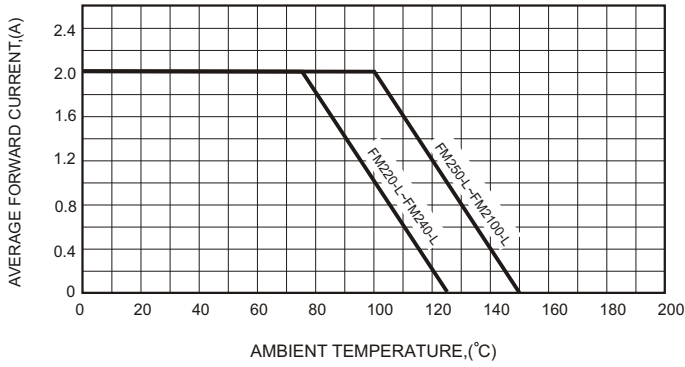


FIG.2-TYPICAL FORWARD CHARACTERISTICS

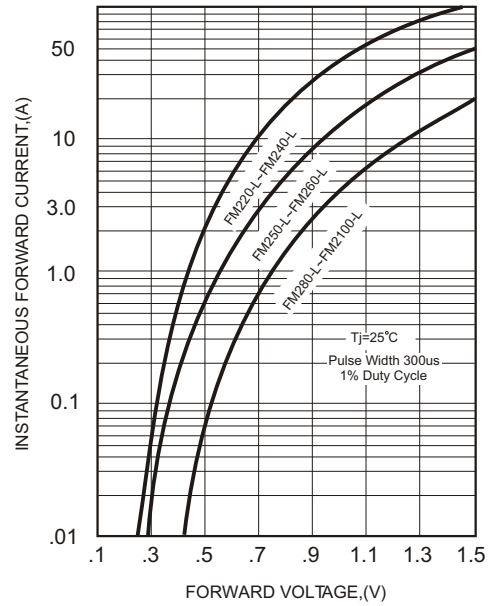


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

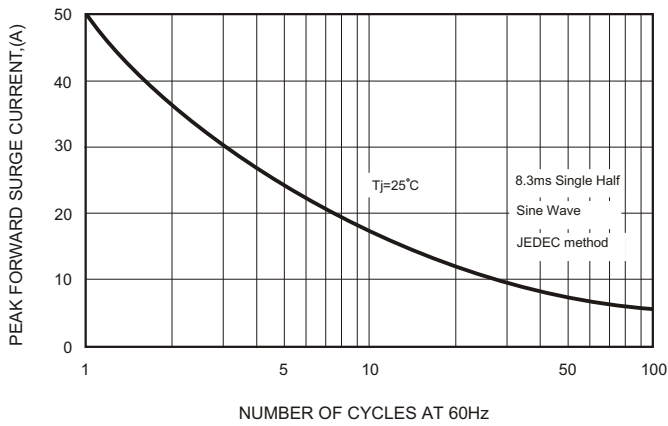


FIG.4-TYPICAL JUNCTION CAPACITANCE

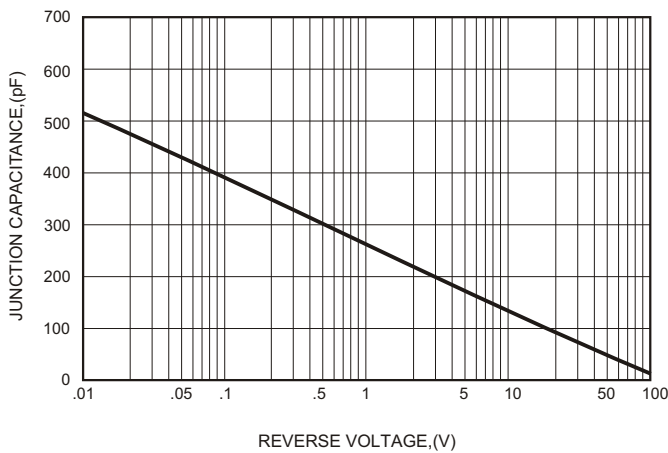


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

