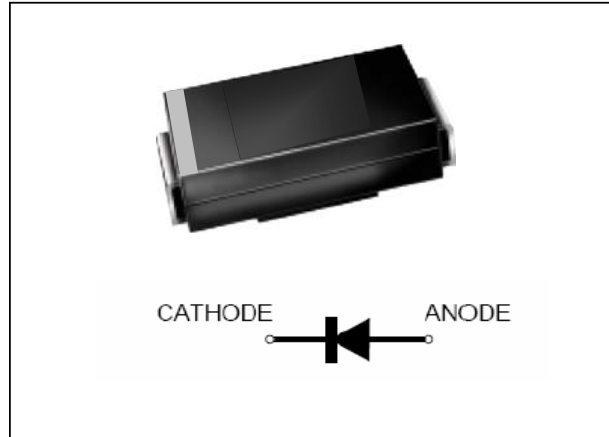


FM401 thru FM407

Surface Mount Glass Passivated Junction Rectifiers Reverse Voltage 50 to 1000V Forward Current 1.0A

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High temperature metallurgically bonded construction
- * Cavity-free glass passivated junction
- * Capable of meeting environmental standards of MIL-S-19500
- * Typical IR less than 1.0 μ A
- * High temperature soldering guaranteed: 260°C/10 seconds



Mechanical Data

Case: JEDEC DO-214AC, molded plastic over glass body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0023 oz., 0.065 g

Handling precaution: None

Electrical Characteristic

1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter Symbol | symbol | FM 401 | FM 402 | FM 403 | FM 404 | FM 405 | FM 406 | FM 407 | Unit |
|--|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------------------|
| Device marking code | | M01 | M02 | M03 | M04 | M05 | M06 | M07 | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RSM voltage | V_{RSM} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current land areas at $T_c = 75^\circ\text{C}$ (Note 1) | $I_F(AV)$ | 1.0 | | | | | | | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | | | | | A |
| Typical thermal resistance (Note 1) | $R_{\theta JA}$ $R_{\theta JC}$ | 150 45 | | | | | | | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range | TJ, TSTG | -50 to +150 | | | | | | | $^\circ\text{C}$ |

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter Symbol | symbol | FM 401 | FM 402 | FM 403 | FM 404 | FM 405 | FM 406 | FM 407 | Unit |
|--|--------|-----------|--------|--------|--------|--------|--------|--------|---------------|
| Maximum instantaneous forward voltage at 1.0A | V_F | 1.1 | | | | | | | V |
| Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$ | IR | 5.0 50 | | | | | | | μA |
| Typical junction capacitance at 4.0V, 1MHz | CJ | 15.0 | | | | | | | PF |

NOTES:

1. 8.0mm² (.013mm thick) land areas

We declare that the material of product compliance with ROHS requirements

FM401 thru FM407

2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

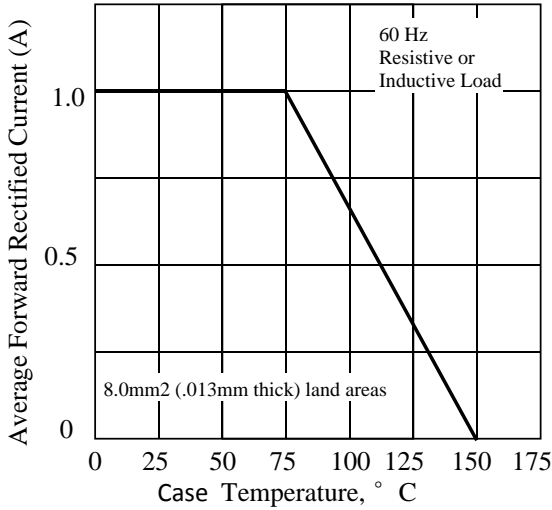


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

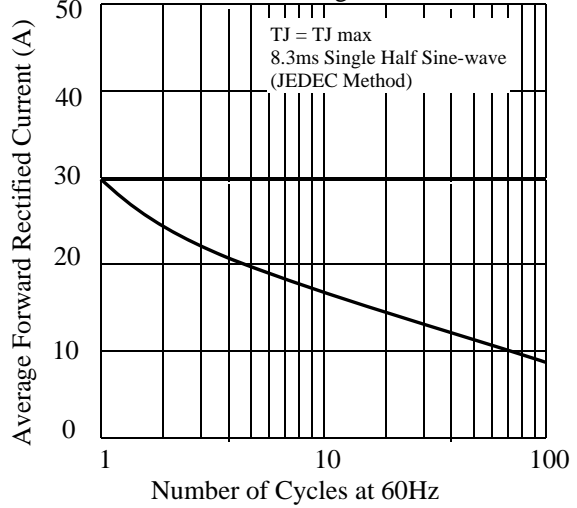


Fig 3. - Typical Instantaneous Forward Characteristics

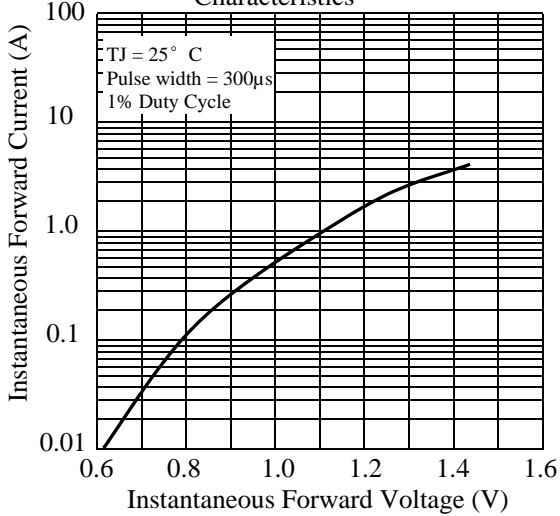


Fig 4. - Typical Reverse Characteristics

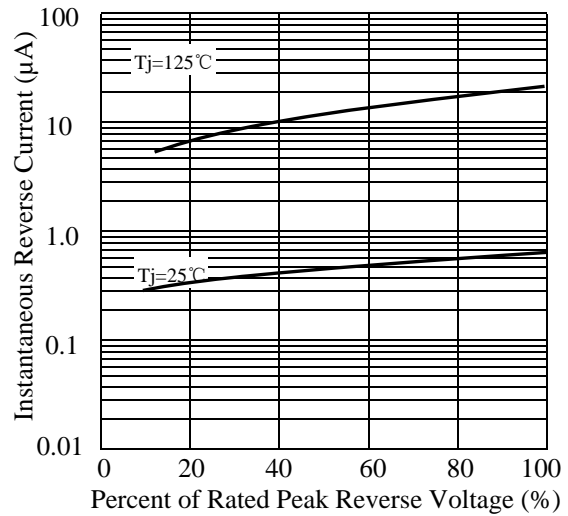


Fig 5. - typical transient thermal impedance

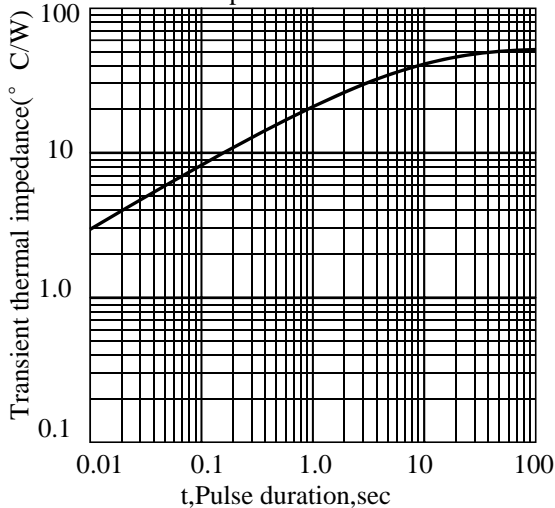
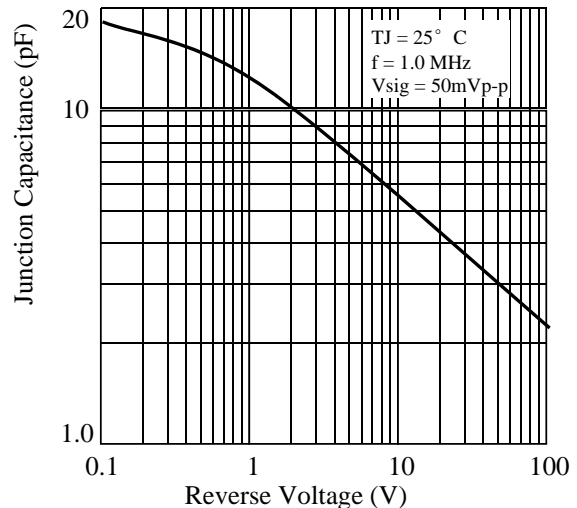
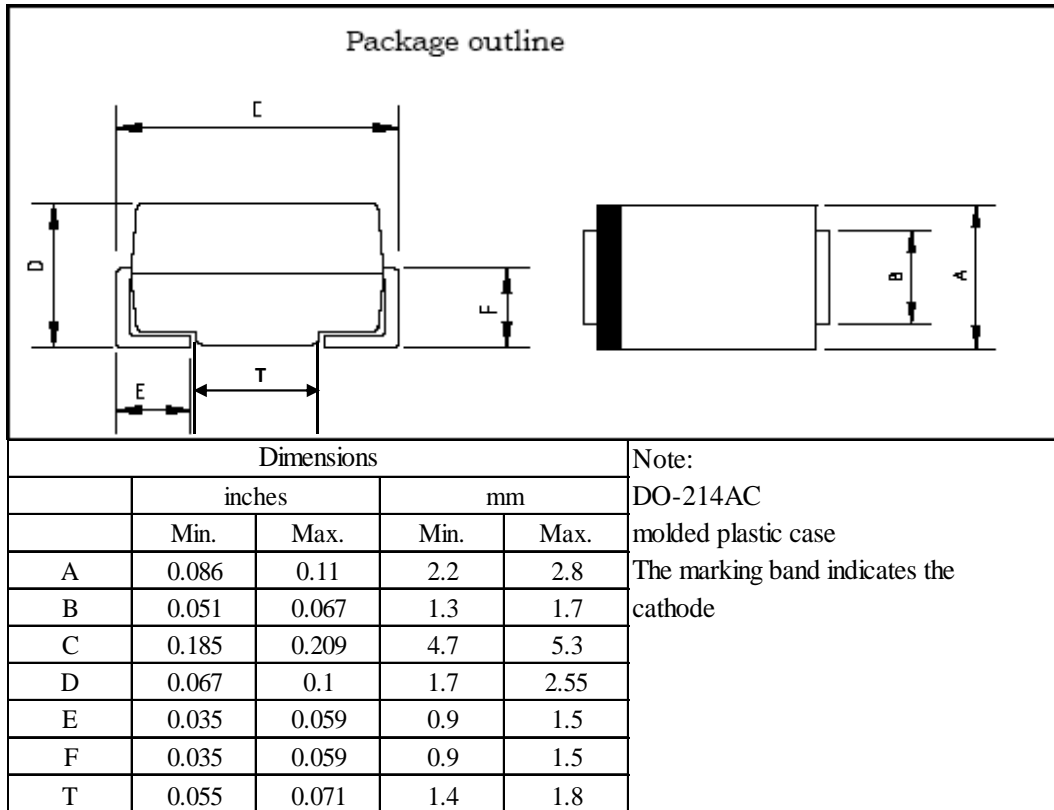


Fig 6. - Typical Junction Capacitance

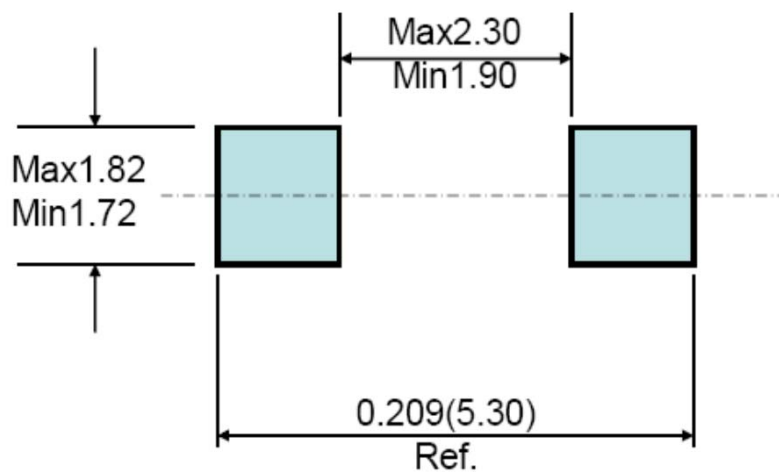


FM401 thru FM407

3. dimension:



Mounting Pad Layout ---SMA



FM401 thru FM407

4. Update Record

| 版次 | 更新记录 | 更新作者 | 更新日期 |
|----|-----------|------|-----------|
| 1 | 第一版 | 周杰 | 2010-4-13 |
| 2 | 增加包装规范 | 周杰 | 2011-9-13 |
| 3 | 修改热阻和降额温度 | 谭志伟 | 2016-9-1 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Diodes - General Purpose, Power, Switching category:](#)

Click to view products by [Leshan manufacturer:](#)

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [RD0506LS-SB-1H](#) [RGP30G-E373](#) [DSE010-TR-E](#) [BAQ333-TR](#) [BAQ335-TR](#) [BAQ33-GS18](#) [BAS1602VH6327XT](#) [BAV17-TR](#) [BAV19-TR](#) [BAV301-TR](#) [BAW27-TAP](#) [HSC285TRF-E](#) [NSVBAV23CLT1G](#) [NTE525](#) [1SS181-TP](#) [1SS184-TP](#) [1SS193,LF](#) [1SS193-TP](#) [1SS400CST2RA](#) [SBAV99LT3G](#) [SDAA13](#) [LL4448-GS18](#) [SHN2D02FUTW1T1G](#) [LS4150GS18](#) [LS4151GS08](#) [SMMD7000LT3G](#) [FC903-TR-E](#) [1N4449](#) [1N4934-E3/73](#) [1SS226-TP](#) [APT100DL60HJ](#) [RFUH20TB3S](#) [RGP30G-E354](#) [RGP30M-E3/73](#) [D291S45T](#) [MCL4151-TR](#) [BAS 16-02V H6327](#) [BAS 21U E6327](#) [BAS 28 E6327](#) [BAS33-TAP](#) [BAS 70-02V H6327](#) [BAV300-TR](#) [BAV303-TR3](#) [BAW27-TR](#) [BAW56DWQ-7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#)