



1SS417FN2

SURFACE MOUNT SCHOTTKY BARRIER

Voltage

40 V

Current

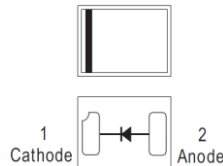
100 mA

Features

- Small package
- Low forward voltage : $V_{F(3)}=0.51V(\text{typ.})$
- Low reverse current : $I_R=5\mu A(\text{Max.})$
- Lead free in compliance with EU RoHS2.0
(2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std..(Halogen Free)

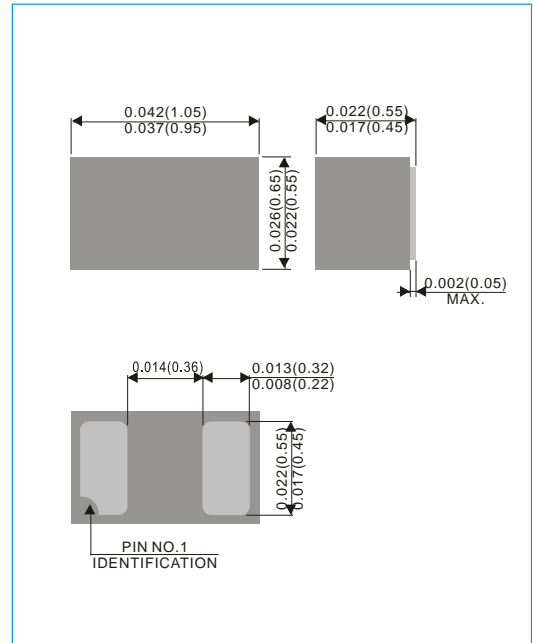
Mechanical Data

- Case: DFN 2L plastic case
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00004 ounces, 0.0011 grams
- Marking: 7F



DFN 2L

Unit : inch(mm)



MAXIMUM RATINGS (T_A=25°C)

| PARAMETER | SYMBOL | VALUE | UNIT |
|--|-----------------------------------|-------------|------|
| Maximum (peak) reverse voltage | V _{RM} | 45 | V |
| Peak reverse voltage | V _R | 40 | V |
| Maximum (peak) forward current | I _{FM} | 200 | mA |
| Average forward current | I _O | 100 | mA |
| Surge current (10ms) | I _{FSM} | 1 | A |
| Power dissipation | P _D | 100 | mW |
| Operating junction and storage temperature range | T _J , T _{STG} | -55 to +125 | °C |



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ELECTRICAL CHARACTERISTICS (T_A=25°C)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|----------------------|-----------------|----------------------------|------|------|------|------|
| Forward voltage | V _{F1} | I _F =1mA | - | 0.26 | - | V |
| | V _{F2} | I _F =10mA | - | 0.34 | - | |
| | V _{F3} | I _F =100mA | - | 0.51 | 0.62 | |
| Reverse current | I _R | V _R =40V | - | - | 5 | μA |
| Junction capacitance | C _J | V _R =0V, f=1MHz | - | 10 | - | pF |

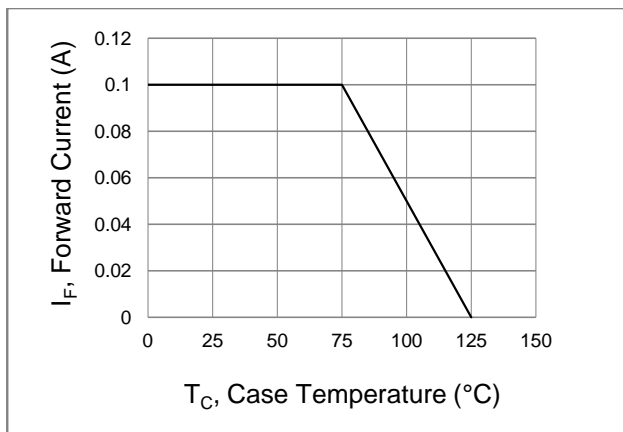


Fig.1 Forward Current Derating Curve

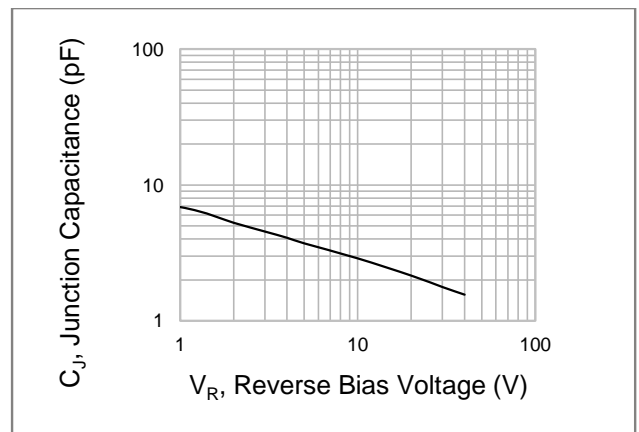


Fig.2 Typical Junction Capacitance

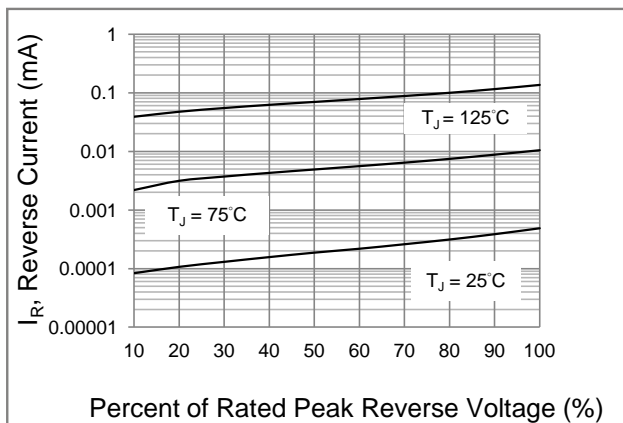


Fig.3 Typical Reverse Characteristics

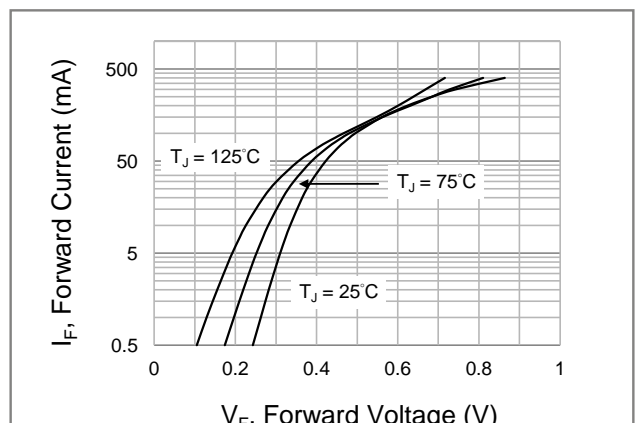


Fig.4 Typical Forward Characteristics

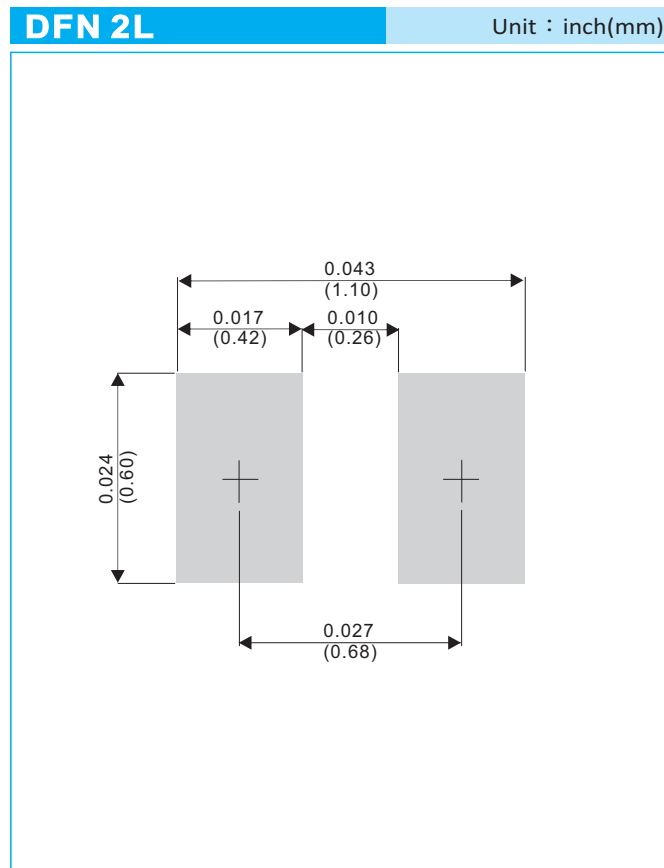


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PART NO PACKING CODE VERSION

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|----------------------|--------------|------------------|---------|--------------|
| 1SS417FN2_R1_00001 | DFN 2L | 8K pcs / 7" reel | 7F | Halogen free |

MOUNTING PAD LAYOUT





1SS417FN2

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