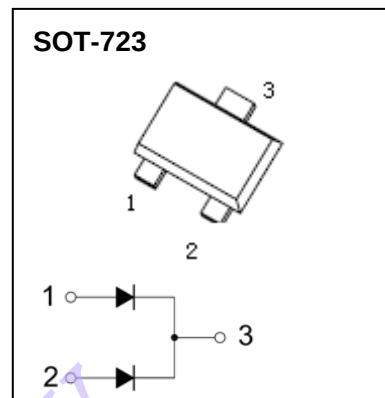


SWITCHING DIODE

**FEATURES**

- Ultra Small Surface Mounting Type
- Ultra High Speed Switching Applications
- High Reliability
- **Pb-Free package is available**  
RoHS product for packing code suffix "G"  
Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1



**MARKING: N**

**MAXIMUM RATINGS (  $T_a=25^{\circ}\text{C}$  unless otherwise noted )**

| Symbol          | Parameter                                         | Value    | Unit                 |
|-----------------|---------------------------------------------------|----------|----------------------|
| $V_{RRM}$       | Peak Reverse Voltage                              | 80       | V                    |
| $V_{RWM}$       | Working Peak Reverse Voltage                      | 80       | V                    |
| $V_{R(RMS)}$    | RMS Reverse Voltage                               | 56       | V                    |
| $I_O$           | Continuous Forward Current                        | 100      | mA                   |
| $I_{FM}$        | Peak Forward Current                              | 300      | mA                   |
| $I_{FSM}$       | Non-Repetitive Peak Forward Surge Current (t=1μs) | 4        | A                    |
| $P_D$           | Power Dissipation                                 | 150      | mW                   |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient       | 833      | $^{\circ}\text{C/W}$ |
| $T_j$           | Junction Temperature                              | 150      | $^{\circ}\text{C}$   |
| $T_{stg}$       | Operating/Storage Temperature                     | -55~+150 | $^{\circ}\text{C}$   |

**ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}\text{C}$  unless otherwise specified)**

| Parameter             | Symbol     | Test conditions                                   | Min | Typ | Max | Unit          |
|-----------------------|------------|---------------------------------------------------|-----|-----|-----|---------------|
| Reverse voltage       | $V_{(BR)}$ | $I_R=100\mu\text{A}$                              | 80  |     |     | V             |
| Reverse current       | $I_R$      | $V_R=70\text{V}$                                  |     |     | 0.1 | $\mu\text{A}$ |
| Forward voltage       | $V_F$      | $I_F=100\text{mA}$                                |     |     | 1.2 | V             |
| Total capacitance     | $C_{tot}$  | $V_R=6\text{V}, f=1\text{MHz}$                    |     |     | 3.5 | pF            |
| Reverse recovery time | $t_{rr}$   | $I_F=I_R=5\text{mA}, V_R=6\text{V}, R_L=50\Omega$ |     |     | 4   | ns            |



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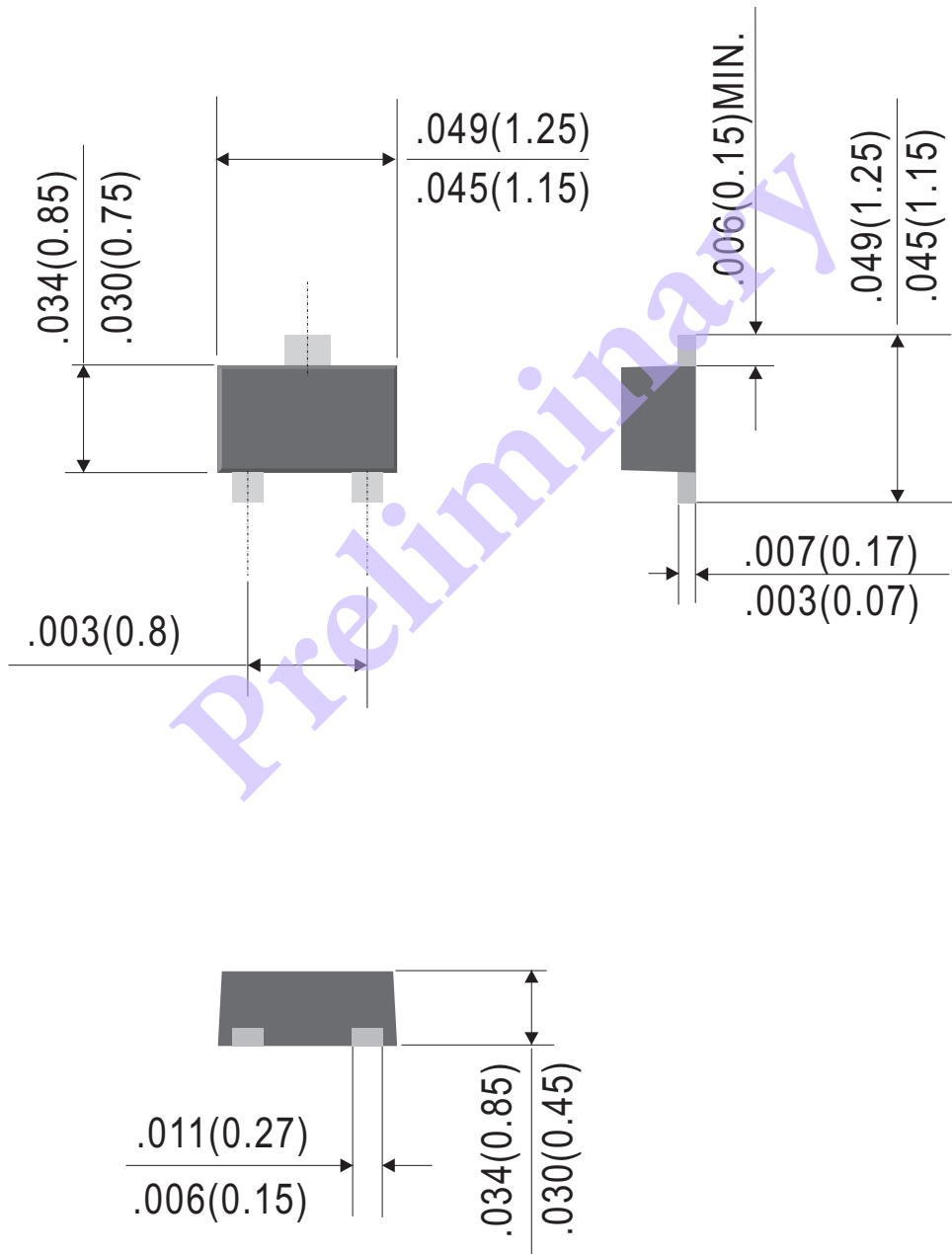


## SOT-723 Plastic-Encapsulate Diodes

DAN222M

### Outline Drawing

### SOT-723



Dimensions in inches and (millimeters)

Rev.C



#### Ordering Information:

| Device PN                                      | Packing                |
|------------------------------------------------|------------------------|
| DAN222M -T <sup>(1)</sup> G <sup>(2)</sup> -WS | Tape&Reel: 8 Kpcs/Reel |

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

#### \*\*\*Disclaimer\*\*\*

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