



SOT-523 Plastic-Encapsulate Diodes

SCHOTTKY BARRIER DIODE

FEATURES:

Extra Small Power Mold Type

Low V_F

High Reliability

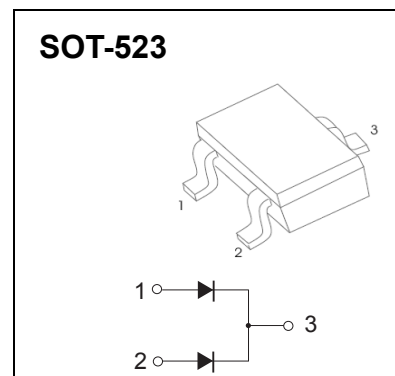
Pb-Free package is available

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1

MARKING: 3D



Maximum Ratings @Ta=25 °C

| Parameter | Symbol | Limit | Unit |
|---|-----------------|----------|------|
| Peak reverse voltage | V_{RM} | 40 | V |
| DC reverse voltage | V_R | 40 | V |
| Peak forward surge current | I_{FSM} | 200 | mA |
| Average forward current | I_O | 30 | mA |
| Power dissipation | P_D | 150 | mW |
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 667 | °C/W |
| Operating temperature | T_j | -55~+125 | °C |
| Storage temperature | T_{stg} | -55~+150 | °C |

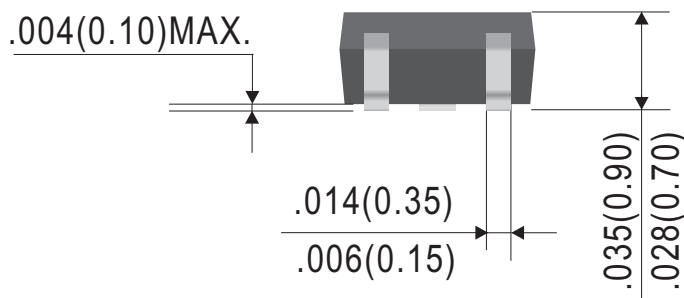
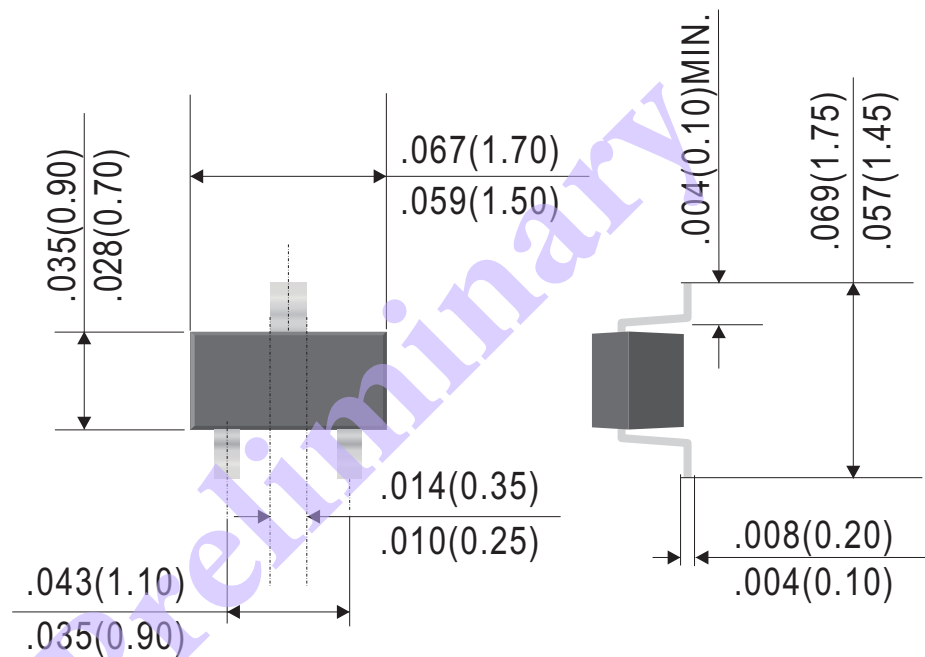
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|---------------------------------|--------|------------------|-----|-----|------|---------|
| Reverse voltage leakage current | I_R | $V_R=10V$ | | | 1 | μA |
| Forward voltage | V_F | $I_F=1mA$ | | | 0.37 | V |
| Capacitance between terminals | C_T | $V_R=1V, f=1MHz$ | | 2.0 | | pF |



Outline Drawing

SOT-523



Dimensions in inches and (millimeters)



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Ordering Information:

| Device PN | Packing |
|--|------------------------|
| SCS715W -T ⁽¹⁾ G ⁽²⁾ -WS | Tape&Reel: 3 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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