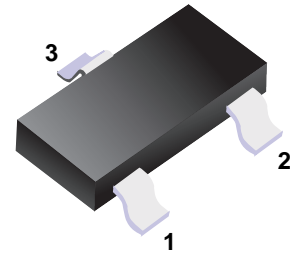


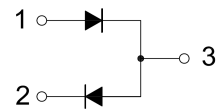
■ Switching Diodes

■ Features

- Dual Switching Diode
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications



■ Simplified outline(SOT-23)



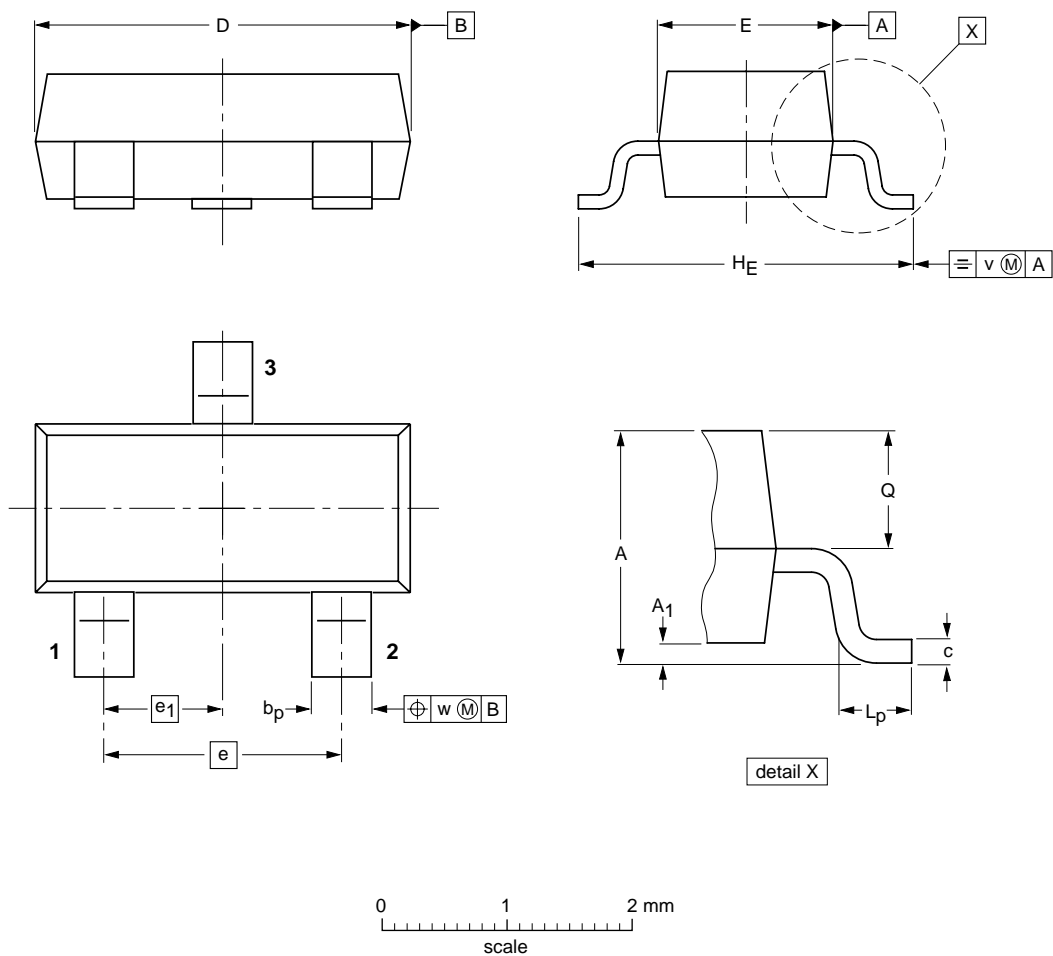
■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---|-----------------|------------|------|
| Reverse Voltage | V_{RM} | 100 | V |
| Peak Repetitive Reverse Voltage | V_{RRM} | 75 | |
| Working Peak Reverse Voltage | V_{RWM} | | |
| RMS Reverse Voltage | V_{RMS} | 53 | |
| Average Rectified Output Current | I_o | 200 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 1us @ t = 1s | I_{FSM} | 2 | A |
| | | 1 | |
| Power Dissipation | P_d | 225 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 556 | °C/W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature range | T_{stg} | -55 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------------|----------|--|-----|-----|------|------|
| Reverse breakdown voltage | V_R | $I_R = 100 \mu A$ | 100 | | | V |
| Forward voltage | V_F | $I_F = 1 \text{ mA}$ | | | 0.7 | |
| | | $I_F = 10 \text{ mA}$ | | | 0.82 | |
| | | $I_F = 100 \text{ mA}$ | | | 1.1 | |
| Reverse voltage leakage current | I_R | $V_R = 50 \text{ V}$ | | | 1 | uA |
| | | $V_R = 100 \text{ V}$ | | | 3 | |
| Diode capacitance | C_T | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$ | | | 2 | pF |
| Reverse recovery time | t_{rr} | $I_F = I_R = 10 \text{ mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$ | | | 4 | ns |

■ SOT-23



DIMENSIONS (mm are the original dimensions)

| UNIT | A | A ₁ max. | b _p | c | D | E | e | e ₁ | H _E | L _p | Q | v | w |
|------|------------|------------------------|----------------|--------------|------------|------------|-----|----------------|----------------|----------------|--------------|-----|-----|
| mm | 1.1 0.9 | 0.1 | 0.48 0.38 | 0.15 0.09 | 3.0 2.8 | 1.4 1.2 | 1.9 | 0.95 | 2.5 2.1 | 0.45 0.15 | 0.55 0.45 | 0.2 | 0.1 |