



SOT-363 Plastic-Encapsulate Diodes

SWITCHING DIODE

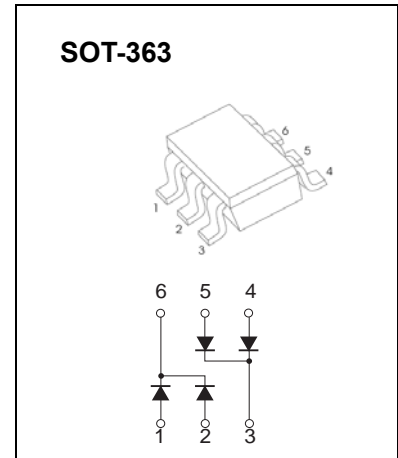
FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

MAKING: KJA

Maximum Ratings @Ta=25°C

| Parameter | Symbol | Limit | Unit |
|---|-----------------|------------------|------|
| Peak Repetitive Peak Reverse Voltage | V_{RRM} | 100 | V |
| Working Peak Reverse Voltage | V_{RWM} | 100 | |
| DC Blocking Voltage | V_R | 75 | |
| Forward Continuous Current | I_{FM} | 300 | mA |
| Average Rectified Output Current | I_O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current | I_{FSM} | @ t = 1.0µs 2 | A |
| | | @ t = 1.0s 1 | |
| Power Dissipation | P_D | 200 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 625 | °C/W |
| Operating Junction Temperature | T_J | 150 | °C |
| Storage Temperature | T_{STG} | -55~+150 | °C |

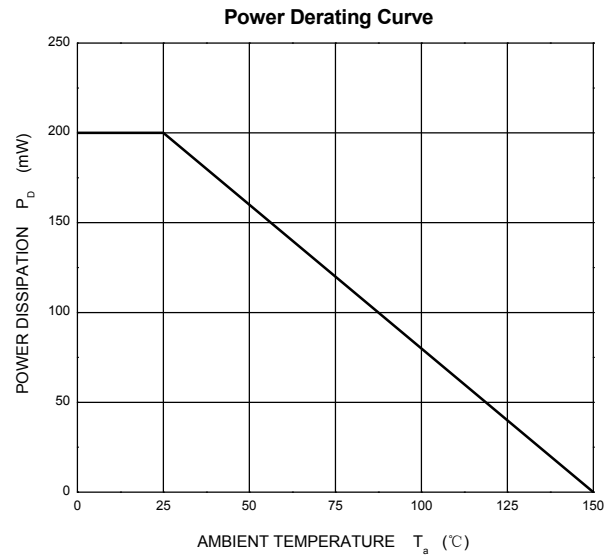
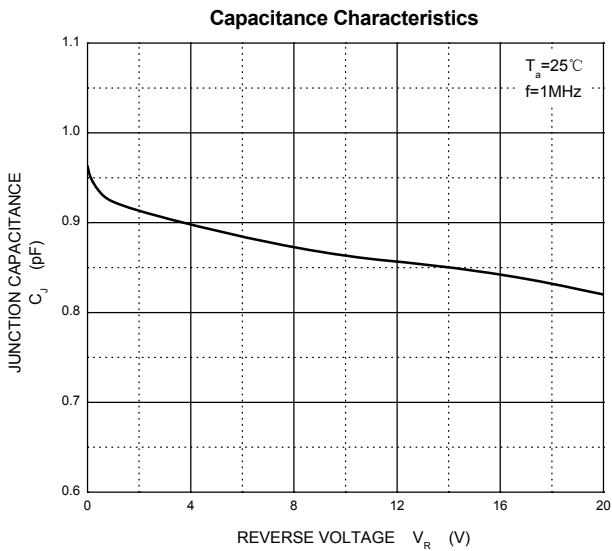
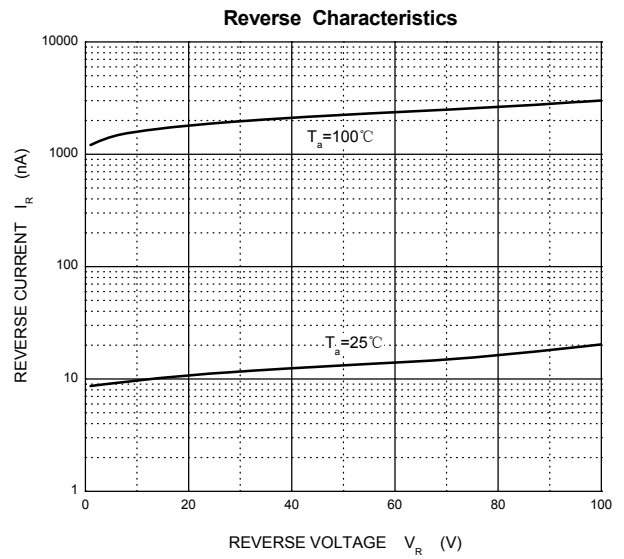
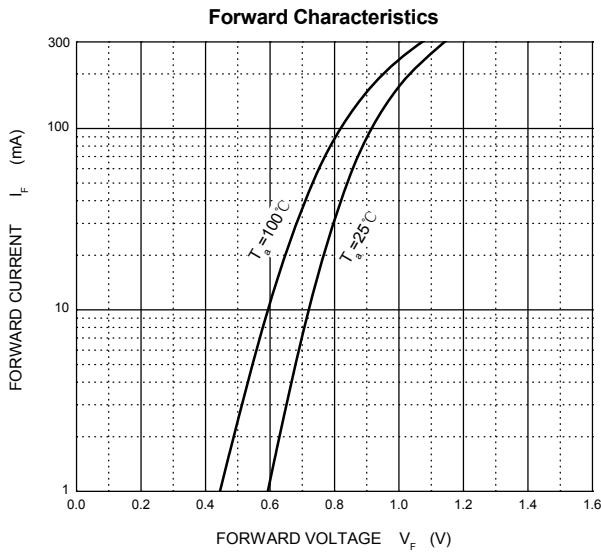


ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Max | Unit |
|---------------------------------|------------|---|-----|----------------------------|---------|
| Reverse breakdown voltage | $V_{(BR)}$ | $I_R = 2.5\mu A$ | 75 | | V |
| Reverse voltage leakage current | I_R | $V_R = 75V$ $V_R = 20V$ | | 2.5 0.025 | μA |
| Forward voltage | V_F | $I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$ | | 715 855 1000 1250 | mV |
| Junction capacitance | C_j | $V_R = 0, f = 1MHz$ | | 2 | pF |
| Reveres recovery time | t_{rr} | $I_F = I_R = 10mA, I_{rr} = 0.1 \times I_R,$ $R_L = 100\Omega$ | | 4 | ns |



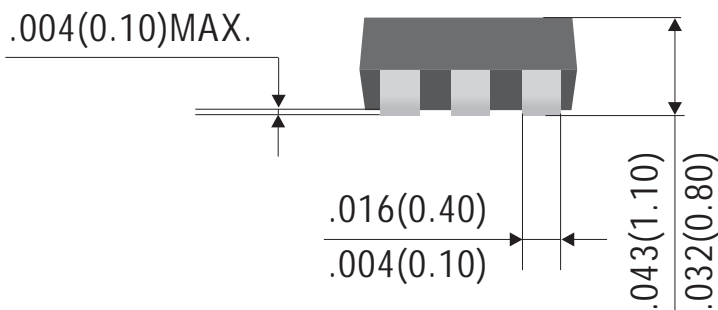
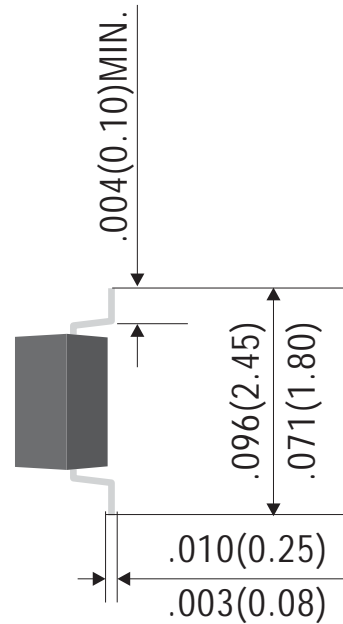
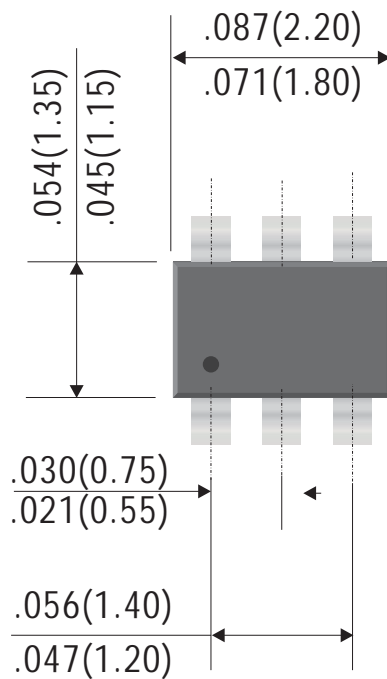
Typical Characteristics





Outline Drawing

SOT-363



Dimensions in inches and (millimeters)