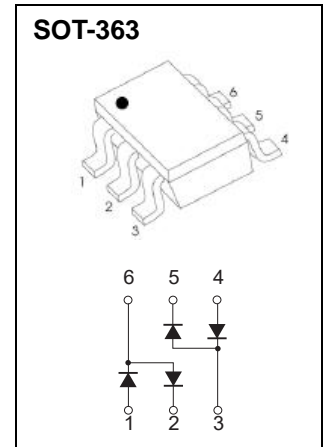
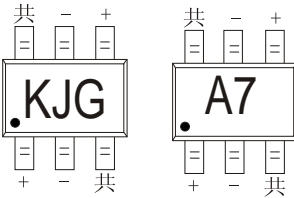


SOT-363 Plastic-Encapsulate Diodes

FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

MAKING: KJG

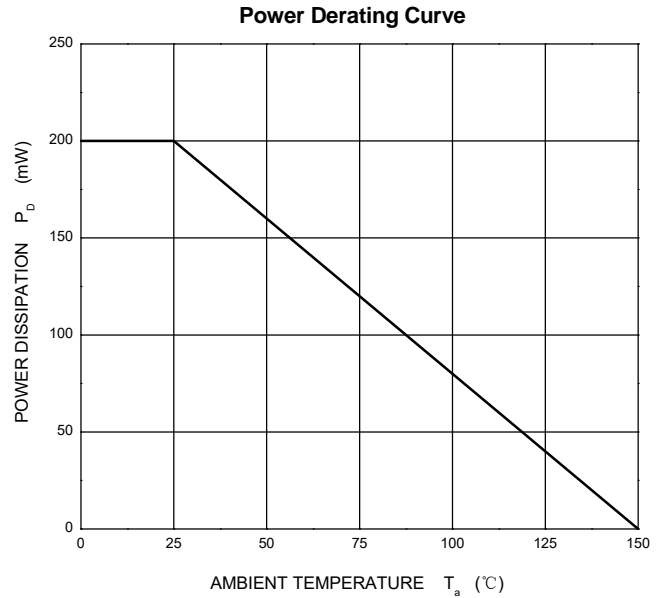
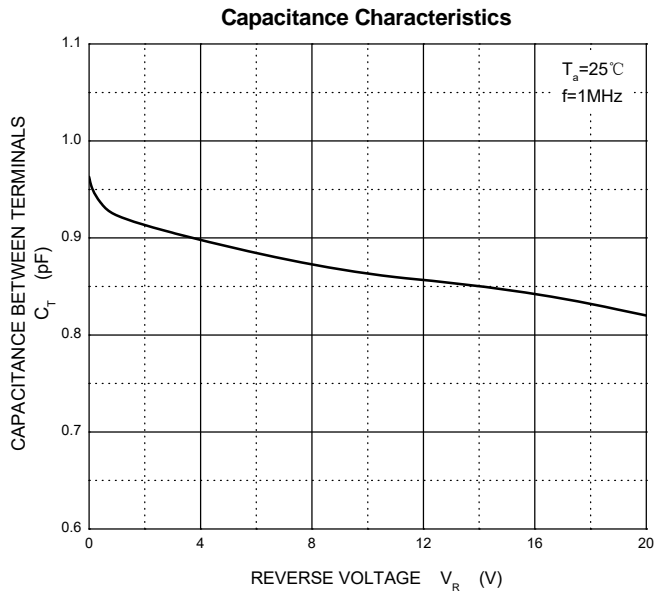
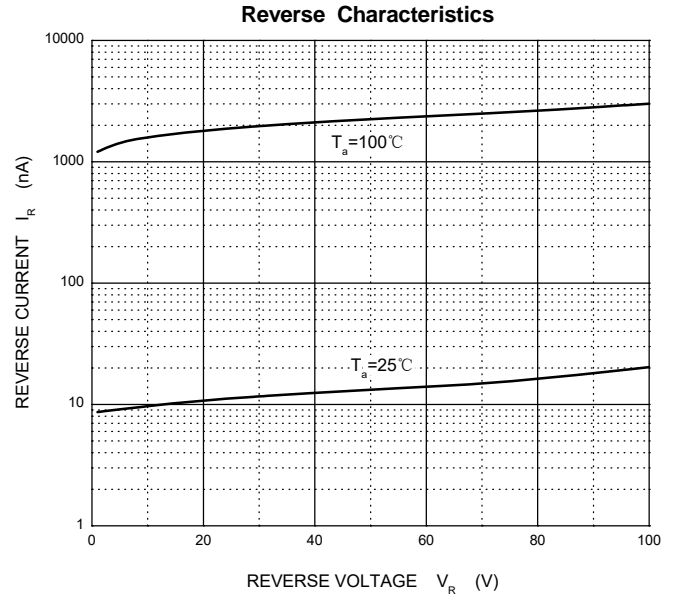
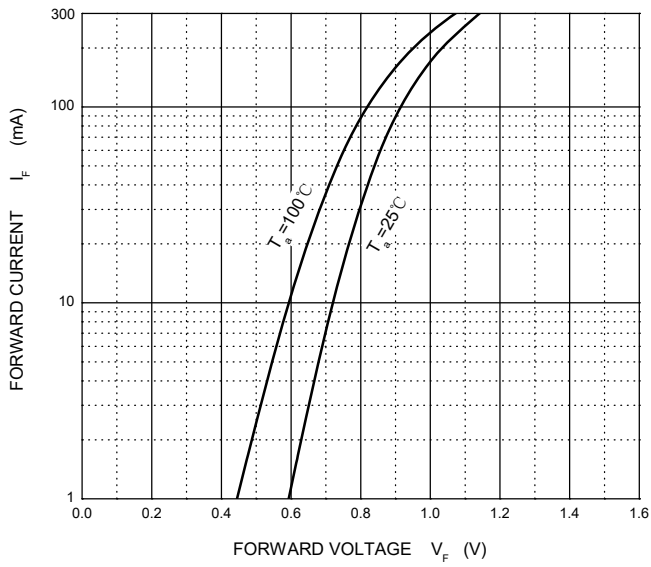


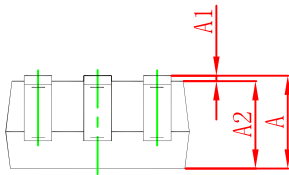
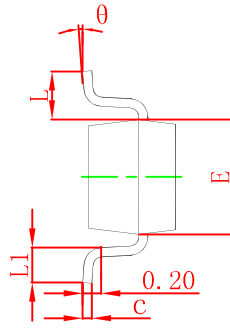
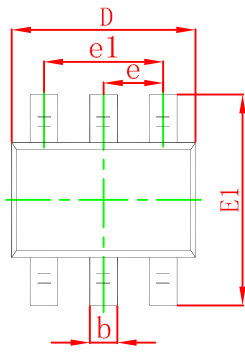
Maximum Ratings @Ta=25°C

| Parameter | Symbol | Limit | Unit |
|---|-----------------|----------|------|
| Peak Repetitive Peak Reverse Voltage | V_{RRM} | 75 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| Forward Continuous Current | I_{FM} | 300 | mA |
| Average Rectified Output Current | I_O | 150 | mA |
| Non-Repetitive Peak Forward Surge Current @ t=8.3ms | I_{FSM} | 2.0 | A |
| Power Dissipation | P_D | 200 | mW |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 625 | °C/W |
| Operation Junction and Storage Temperature Range | T_J, T_{STG} | -55~+150 | °C |

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

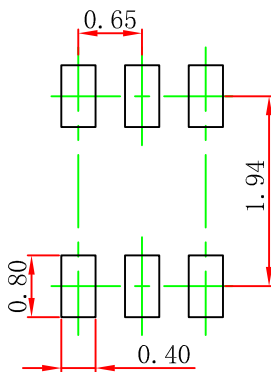
| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-----------------------|------------|--|-----|-----|-------|---------|
| Reverse voltage | $V_{(BR)}$ | $I_R=2.5\mu A$ | 75 | | | V |
| Reverse current | I_R | $V_R=75V$ | | | 2.5 | μA |
| | | $V_R=20V$ | | | 25 | nA |
| Forward voltage | V_F | $I_F=1mA$ | | | 0.715 | V |
| | | $I_F=10mA$ | | | 0.855 | |
| | | $I_F=50mA$ | | | 1 | |
| | | $I_F=150mA$ | | | 1.25 | |
| Total capacitance | C_{tot} | $V_R=0, f=1MHz$ | | | 2 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$ | | | 4 | ns |





| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.900 | 1.100 | 0.035 | 0.043 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.000 | 0.035 | 0.039 |
| b | 0.150 | 0.350 | 0.006 | 0.014 |
| c | 0.100 | 0.150 | 0.004 | 0.006 |
| D | 2.000 | 2.200 | 0.079 | 0.087 |
| E | 1.150 | 1.350 | 0.045 | 0.053 |
| E1 | 2.150 | 2.400 | 0.085 | 0.094 |
| e | 0.650 TYP | | 0.026 TYP | |
| e1 | 1.200 | 1.400 | 0.047 | 0.055 |
| L | 0.525 REF | | 0.021 REF | |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| θ | 0° | 8° | 0° | 8° |

SOT-363 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.