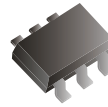


CDSV6-16-G/4148-G

Forward Current: 0.15A
Reverse Voltage: 75V
RoHS Device

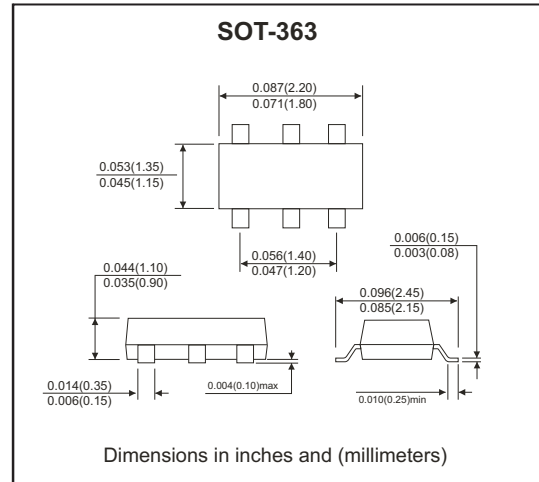
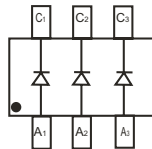


Features

- Fast switching speed.
- For general purpose switching applications.
- High conductance.

Marking: KA2

Diagram:



Maximum Ratings (at TA=25°C unless otherwise noted)

| Parameter | Symbol | Limits | Unit |
|---|---------------------------------|------------|------|
| Non-repetitive peak reverse voltage | V_{RM} | 100 | V |
| Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage | V_{RRM} V_{RWM} V_R | 75 | V |
| RMS reverse voltage | $V_{R(RMS)}$ | 53 | V |
| Forward continuous current | I_{FM} | 300 | mA |
| Averaged rectified output current | I_o | 150 | mA |
| Peak forward surge current | I_{FSM} | 2.0 1.0 | A |
| | @t=1.0μS @t=1.0S | | |
| Power dissipation | P_D | 200 | mW |
| Thermal resistance, junction to ambient air | $R_{\theta JA}$ | 625 | °C/W |
| Operation and storage temperature range | T_J, T_{STG} | -65 ~ +150 | °C |

Electrical Characteristics (at TA=25°C unless otherwise noted)

| Parameter | Conditions | Symbol | Min | Typ | Max | Unit |
|-------------------------------|---|--|-----|-----|-------------------------------|----------|
| Reverse breakdown voltage | $I_R=1\mu A$ | $V_{(BR)R}$ | 75 | | | V |
| Forward voltage | $I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$ | V_{F1} V_{F2} V_{F3} V_{F4} | | | 0.715 0.855 1.0 1.25 | V |
| Reverse leakage current | $V_R=20V$ $V_R=75V$ | I_{R1} I_{R2} | | | 25 1 | nA μA |
| Capacitance between terminals | $V_R=0V, f=1.0MHz$ | C_T | | | 2 | pF |
| Reverse recovery time | $I_F=I_R=10mA$ to $I_R=0.1 \times I_R, R_L=100\Omega$ | t_{rr} | | | 4 | nS |

ELECTRICAL CHARACTERISTIC CURVES (CDSV6-16-G/4148-G)

Fig.1 - Forward Characteristics

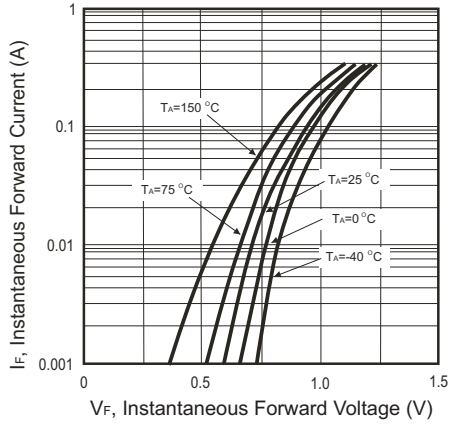


Fig.2 - Reverse Characteristics

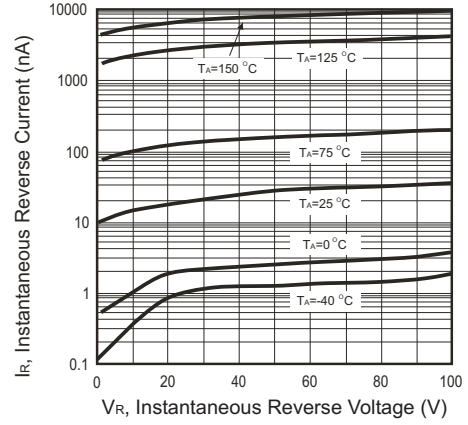


Fig.3 - Capacitance Between Terminals Characteristics

