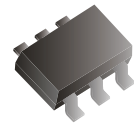


## CDSV6-99SD-G

**Reverse Voltage: 75 Volts**

**Forward Current: 215 mA**

**RoHS Device**



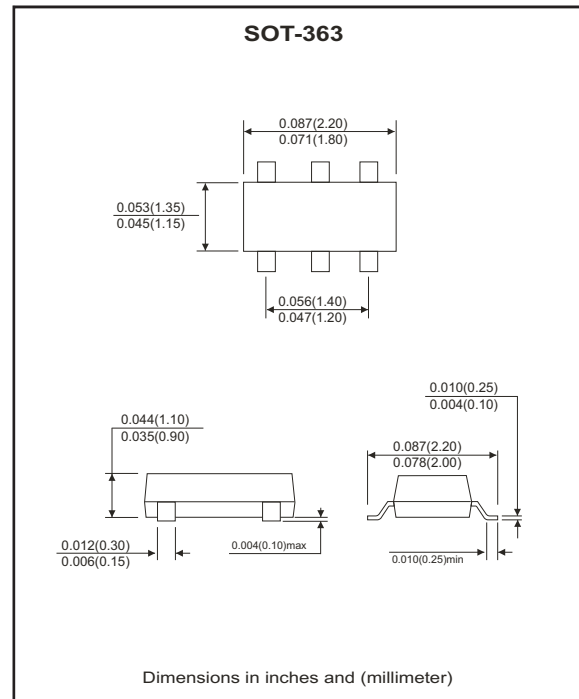
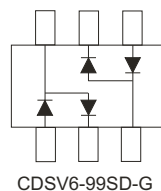
### Features

- Design for mounting on small surface.
- High speed switching.
- Ultra small surface mount package.
- Two BAV99 circuits in one package.

### Mechanical data

- Case: SOT-363, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.006 grams

### Circuit diagram



### Maximum Ratings and Electrical Characteristics

(at Ta=25 °C unless otherwise noted)

| Parameter                       | Symbol    | Conditions                                                                             | Value                         | Units      |
|---------------------------------|-----------|----------------------------------------------------------------------------------------|-------------------------------|------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |                                                                                        | 75                            | V          |
| Reverse voltage                 | $V_R$     |                                                                                        | 75                            | V          |
| Forward current                 | $I_F$     |                                                                                        | 215                           | mA         |
| Peak surge forward current      | $I_{FSM}$ | $T=1.0 \mu S$                                                                          | 2                             | A          |
| Power dissipation               | $P_D$     |                                                                                        | 200                           | mW         |
| Maximum forward voltage         | $V_F$     | $@I_F=1mA$<br>$@I_F=10mA$<br>$@I_F=50mA$<br>$@I_F=100mA$                               | 0.715<br>0.855<br>1.0<br>1.25 | V          |
| Maximum reverse current         | $I_R$     | $@V_R=20V$<br>$@V_R=75V$<br>$@V_R=25V, T_J=150^\circ C$<br>$@V_R=75V, T_J=150^\circ C$ | 0.025<br>2.5<br>30<br>50      | $\mu A$    |
| Maximum reverse recovery time   | $T_{rr}$  | $I_F=I_R=10mA, R_L=100\Omega$                                                          | 4                             | nS         |
| Typical diode capacitance       | $C_T$     | $V_R=0V, f=1.0MHz$                                                                     | 2                             | pF         |
| Maximum junction temperature    | $T_J$     |                                                                                        | 150                           | $^\circ C$ |
| Storage temperature             | $T_{STG}$ |                                                                                        | -55 to +150                   | $^\circ C$ |

## RATING AND CHARACTERISTIC CURVES (CDSV6-99SD-G)

Fig.1 - Forward Characteristics

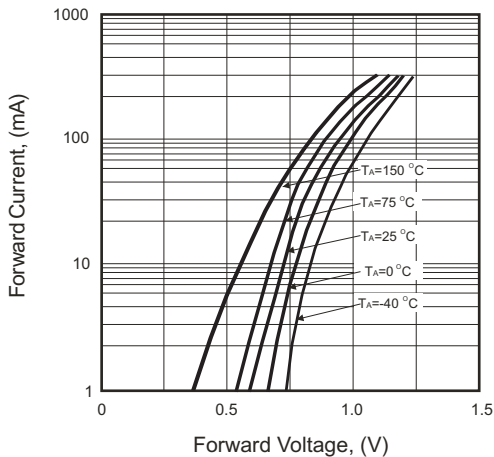


Fig.2 - Reverse Characteristics

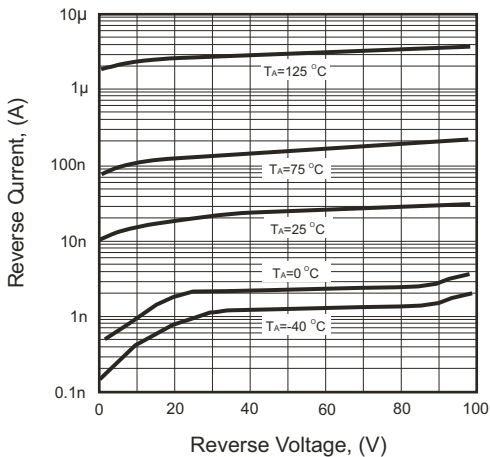


Fig.3 - Capacitance Between Terminals Characteristics

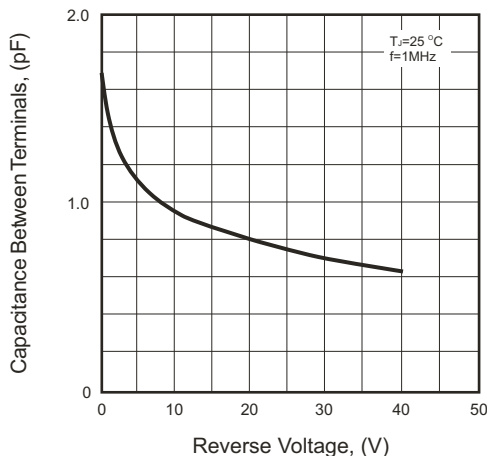
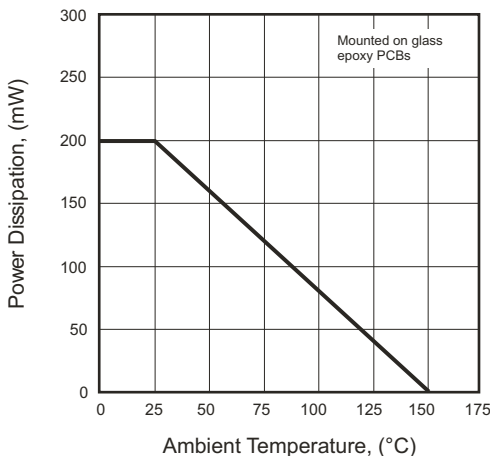


Fig.4 - Power Derating Curve



# AMEYA360

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