

## CSR Series

Working Voltage: 5 V

RoHS Device

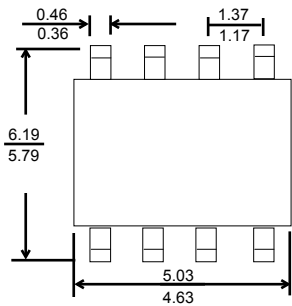
### Features

- Fast Reverse Recovery Time
- Fast Turn on Time
- Low Capacitance SMD Packages
- 16KV IEC61000-4-2 capable

### Mechanical Data

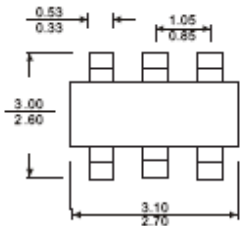
- Case: SOT-23-6 for CSRS065V0-G
- SOT-143 for CSRS045V0-G
- SOIC-8 for CSRN085V0-G

SOIC-8



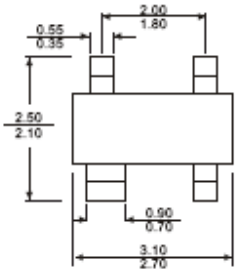
Package height: 1.60mm typ.

SOT-23-6



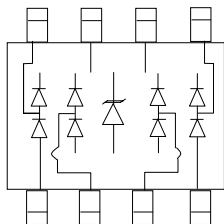
Package height: 1.00mm typ.

SOT-143

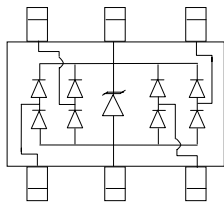


Package height: 0.95mm typ.

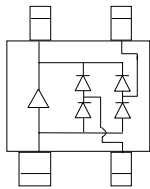
### Circuit Diagram



CSRN085V0-G

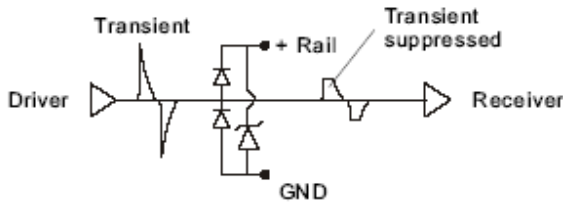


CSRS065V0-G



CSRS045V0-G

### Applications



### Maximum Rating (at $T_A = 25^\circ\text{C}$ unless otherwise noted)

| Parameter                   | Symbol   | Value       | Unit             |
|-----------------------------|----------|-------------|------------------|
| Operating temperature range | $T_{OP}$ | -55 to +150 | $^\circ\text{C}$ |

### Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

| Parameter                   | Conditions            | Symbol    | Min. | Max. | Unit          |
|-----------------------------|-----------------------|-----------|------|------|---------------|
| Forward voltage             | $I_F=50\text{mA}$     | $V_F$     |      | 1.2  | V             |
| Reverse stand-off voltage   |                       | $V_{RWM}$ |      | 5.0  | V             |
| Reverse breakdown voltage   | $I_R=1\mu\text{A}$    | $V_R$     | 6.0  |      | V             |
| Reverse leakage current     | 5.0V                  | $I_L$     |      | 5.0  | $\mu\text{A}$ |
| Capacitance                 | $f=1\text{MHz}$       | $C_T$     |      | 5.0  | pF            |
| Peak ESD voltage capability | IEC 61000-4-2         | $V_{PV}$  |      | 16   | kV            |
| Peak TVS pulse power        | $T_P=8/20\mu\text{S}$ | $V_{TV}$  |      | 300  | W             |