

CSR Series

Working Voltage: 5 V

RoHS Device

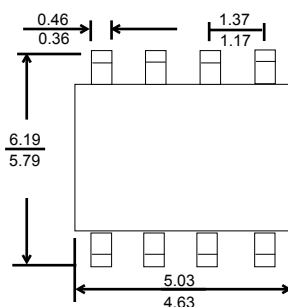
Features

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

Mechanical Data

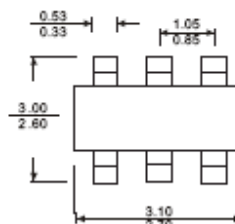
- Case: SOT-23-6 for CSRS065V0-G
- SOT-143 for CSRS045V0-G
- SOIC-8 for CSRN085V0-G

SOIC-8



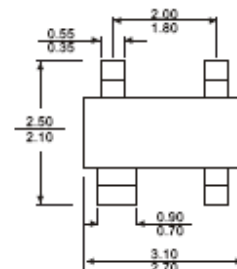
Package height: 1.60mm typ.

SOT-23-6



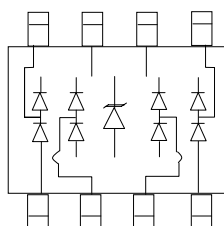
Package height: 1.00mm typ.

SOT-143

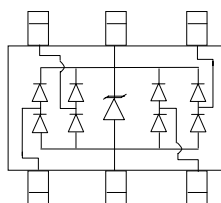


Package height: 0.95mm typ.

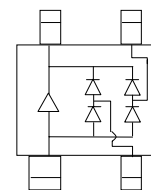
Circuit Diagram



CSRN085V0-G

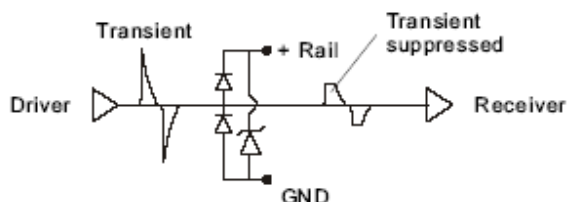


CSRS065V0-G



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	μA
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