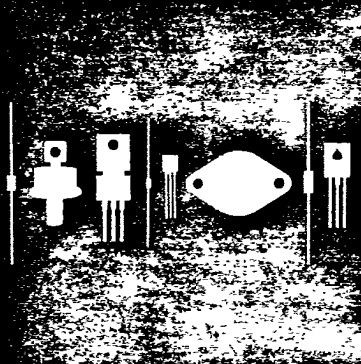


Central Semiconductor Corp.
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CS92 SERIES

SILICON CONTROLLED RECTIFIER
0.8 AMPS

100 THRU 800 VOLTS
JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CS92 Series types are epoxy molded Silicon Controlled Rectifiers designed for control systems and sensing circuit applications.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CS92A	CS92B	CS92D	CS92M	CS92N	UNIT
Peak Repetitive Off-State Voltage	V_{DRM}	100	200	400	600	800	V
RMS On-State Current	$I_T(\text{RMS})$		0.8				A
Peak One Cycle Surge (10ms.)	I_{TSM}		10				A
Peak Gate Current	I_{GM}		1.0				A
Average Gate Power Dissipation	$P_G(\text{AV})$		0.1				W
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 TO +150					$^\circ\text{C}$
Thermal Resistance	θ_{JA}	200					$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_{DRM}	$V_D=V_{DRM}$, $R_{GK}=1\text{K}\Omega$, $T_C=125^\circ\text{C}$		50	μA
I_{RRM}	$V_D=V_{RRM}$, $R_{GK}=1\text{K}\Omega$, $T_C=125^\circ\text{C}$		50	μA
V_{TM}	$I_T=1.2\text{A}$		1.7	V
I_{GT}	$V_D=7.0\text{V}$, $R_L=100\Omega$, $R_{GK}=1\text{K}\Omega$		200	μA
V_{GT}	$V_D=7.0\text{V}$, $R_L=100\Omega$, $R_{GK}=1\text{K}\Omega$		0.8	V
I_H	$R_{GK}=1\text{K}\Omega$		5.0	mA
I_L	$R_{GK}=1\text{K}\Omega$		6.0	mA
dv/dt	$V_D=.67 \times V_{DRM}$, $R_{GK}=1\text{K}\Omega$, $T_C=125^\circ\text{C}$	30TYP		V/ μs

