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CS92B
CS92D
CS92M
CS92N

SILICON CONTROLLED RECTIFIER
0.8 AMP, 200 THRU 800 VOLTS



TO-92 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS92B series type is an epoxy molded Silicon Controlled Rectifier designed for sensing circuit applications and control systems.

MARKING CODE: FULL PART NUMBER

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

	SYMBOL	CS92B	CS92D	CS92M	CS92N	UNITS
Peak Repetitive Off-State Voltage	$V_{\text{DRM}}, V_{\text{RRM}}$	200	400	600	800	V
RMS On-State Current ($T_C=90^\circ\text{C}$)	$I_{\text{T(RMS)}}$			0.8		A
Peak One Cycle Surge ($t=10\text{ms}$)	I_{TSM}			10		A
I^2t Value for Fusing ($t=10\text{ms}$)	I^2t			0.24		A^2s
Peak Gate Power ($t_p=10\mu\text{s}$)	P_{GM}			2.0		W
Average Gate Power Dissipation	$P_{\text{G (AV)}}$			0.1		W
Peak Gate Current ($t_p=10\mu\text{s}$)	I_{GM}			1.0		A
Peak Gate Voltage ($t_p=10\mu\text{s}$)	V_{GM}			8.0		V
Storage Temperature	T_{stg}		-40 to +150			$^\circ\text{C}$
Junction Temperature	T_{J}		-40 to +125			$^\circ\text{C}$
Thermal Resistance	θ_{JA}			200		$^\circ\text{C/W}$
Thermal Resistance	θ_{JC}			100		$^\circ\text{C/W}$

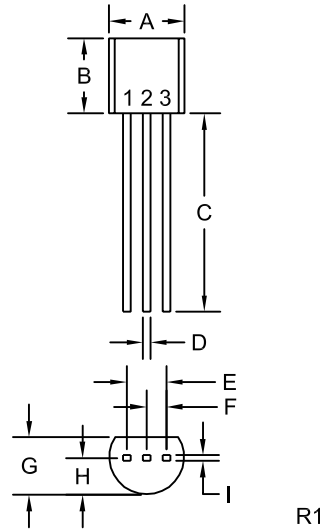
ELECTRICAL CHARACTERISTICS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_{\text{DRM}}, I_{\text{RRM}}$	Rated $V_{\text{DRM}}, V_{\text{RRM}}, R_{\text{GK}}=1\text{K}\Omega$			1.0	μA
$I_{\text{DRM}}, I_{\text{RRM}}$	Rated $V_{\text{DRM}}, V_{\text{RRM}}, R_{\text{GK}}=1\text{K}\Omega, T_C=125^\circ\text{C}$			100	μA
I_{GT}	$V_{\text{D}}=12\text{V}$			200	μA
I_{H}	$I_{\text{T}}=100\text{mA}, R_{\text{GK}}=1\text{K}\Omega$			5.0	mA
V_{GT}	$V_{\text{D}}=12\text{V}$			0.8	V
V_{TM}	$I_{\text{TM}}=1.0\text{A}, t_p=380\mu\text{s}$			1.7	V
dv/dt	$V_{\text{D}}=2/3 V_{\text{DRM}}, R_{\text{GK}}=1\text{K}\Omega, T_C=125^\circ\text{C}$	25			V/ μs

R3 (22-April 2004)

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TO-92 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) CATHODE
- 2) GATE
- 3) ANODE

MARKING CODE:

FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

R3 (22-April 2004)