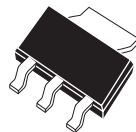


[查询"CS223-4M"供应商](#)

CS223-4M
CS223-4N

4.0 AMP SCR
600 THRU 800 VOLTS



SOT-223 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS223-4M series type is an Epoxy Molded Silicon Controlled Rectifier designed for sensing circuit applications and control systems.

MARKING CODE: FULL PART NUMBER

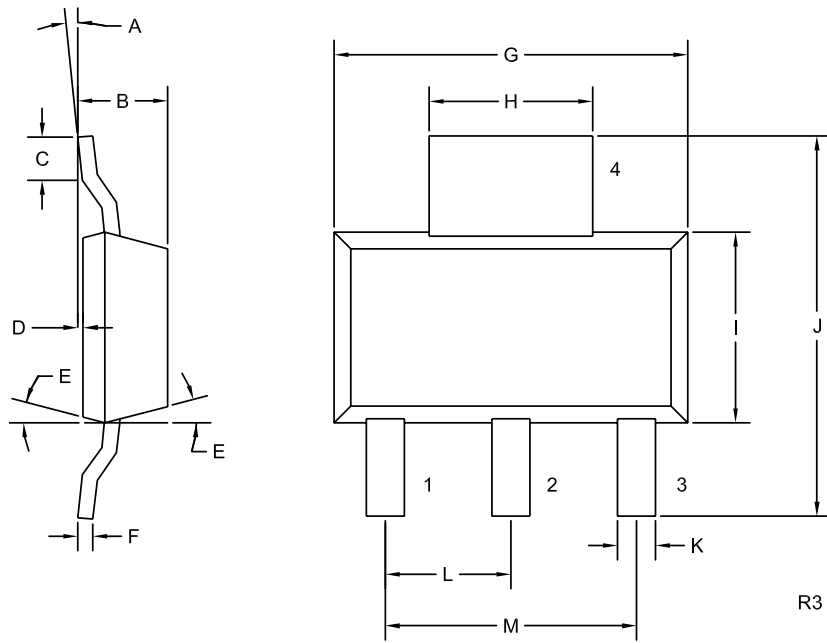
MAXIMUM RATINGS: ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL	CS223 -4M	CS223 -4N	UNITS
Peak Repetitive Off-State Voltage	$V_{\text{DRM}}, V_{\text{RRM}}$	600	800	V
RMS On-State Current ($T_C=85^{\circ}\text{C}$)	$I_{\text{T(RMS)}}$	4.0		A
Peak One Cycle Surge ($t=10\text{ms}$)	I_{TSM}	30		A
I^2t Value for Fusing ($t=10\text{ms}$)	I^2t	4.5		A^2s
Peak Gate Power ($t_p=20\mu\text{s}$)	P_{GM}	3.0		W
Average Gate Power Dissipation	$P_{\text{G(AV)}}$	0.2		W
Peak Gate Current ($t_p=20\mu\text{s}$)	I_{GM}	1.2		A
Critical Rate of Rise of On-State Current	di/dt	50		$\text{A}/\mu\text{s}$
Storage Temperature	T_{stg}	-40 to +150		$^{\circ}\text{C}$
Junction Temperature	T_{J}	-40 to +125		$^{\circ}\text{C}$
Thermal Resistance	θ_{JA}	62.5		$^{\circ}\text{C}/\text{W}$

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 $V_{\text{DRM}}, V_{\text{RRM}}, R_{\text{GK}}=1\text{K}\Omega$			10	μA
$I_{\text{DRM}}, I_{\text{RRM}}$	Rated $V_{\text{DRM}}, V_{\text{RRM}}, R_{\text{GK}}=1\text{K}\Omega, T_C=125^{\circ}\text{C}$			200	μA
I_{GT}	$V_{\text{D}}=12\text{V}, R_{\text{L}}=10\Omega$	20	38	200	μA
I_{H}	$I_{\text{T}}=50\text{mA}, R_{\text{GK}}=1\text{K}\Omega$		0.25	2.0	mA
V_{GT}	$V_{\text{D}}=12\text{V}, R_{\text{L}}=10\Omega$		0.55	0.8	V
V_{TM}	$I_{\text{TM}}=8.0\text{A}, t_p=380\mu\text{s}$		1.6	1.8	V
dv/dt	$V_{\text{D}}=2/3 V_{\text{DRM}}, R_{\text{GK}}=1\text{K}\Omega, T_C=125^{\circ}\text{C}$	10			$\text{V}/\mu\text{s}$

SOT-223 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODE:

FULL PART NUMBER

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0°	10°	0°	10°
B	0.059	0.071	1.50	1.80
C	0.018	---	0.45	---
D	0.000	0.004	0.00	0.10
E	15°		15°	
F	0.009	0.014	0.23	0.35
G	0.248	0.264	6.30	6.70
H	0.114	0.122	2.90	3.10
I	0.130	0.146	3.30	3.70
J	0.264	0.287	6.70	7.30
K	0.024	0.033	0.60	0.85
L	0.091		2.30	
M	0.181		4.60	

SOT-223 (REV: R3)

R0 (11-May 2004)