CS223-4M CS223-4N

SURFACE MOUNT SILICON CONTROLLED RECTIFIERS 4.0 AMP, 600 AND 800 VOLT



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS223-4M and CS223-4N are epoxy molded SCRs designed for sensing circuit applications and control systems.

MARKING: FULL PART NUMBER



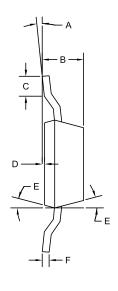
MAXIMUM RATINGS: (T _C =25°C unless otherwise noted) Peak Repetitive Off-State Voltage		SYMBOL V _{DRM,} V _{RRM}	CS223-4M 600	CS223-4N 800	UNITS V
RMS On-State Current (T _C =85°C)		I _T (RMS)	4.0		Α
Peak One Cycle Surge, t=10ms		ITSM	30		Α
I ² t Value for Fusing, t=10ms		I ² t	4.5		A^2s
Peak Gate Powe	er, tp=20µs	P _{GM}	3.	0	W
Average Gate Power Dissipation PG(A)		P _G (AV)	0.2		W
Peak Gate Current, tp=20µs		^I GM	1.2		Α
Critical Rate of Rise of On-State Current		di/dt	50		A/µs
Operating Junction Temperature		T_J	-50 to +125		°C
Storage Temperature		T _{stg}	-50 to +150		°C
Thermal Resistance		$\Theta_{\sf JA}$	62.5		°C/W
ELECTRICAL C SYMBOL IDRM, IRRM	CHARACTERISTICS: (T _C =25°C unless oth TEST CONDITIONS Rated V_{DRM} , V_{RRM} , R_{GK} =1.0K Ω	erwise noted) MIN	TYP	MAX 10	UNITS μΑ
I _{DRM} , I _{RRM}	Rated V _{DRM} , V _{RRM} , R _{GK} =1.0KΩ, T _C =		100	μΑ	
l _{GT}	V_D =12V, R_L =10 Ω	20	38	200	μΑ
lΗ	I_T =50mA, R_{GK} =1.0K Ω		1.0	2.0	mA
V_{GT}	V_D =12V, R_L =10 Ω		0.55	0.8	V
V_{TM}	I _{TM} =8.0A, tp=380μs		2.0	2.2	V
dv/dt	$V_{D}^{=2}/_{3} V_{DRM}, R_{GK}^{=1.0K\Omega}, T_{C}^{=125^{\circ}C}$	10			V/µs

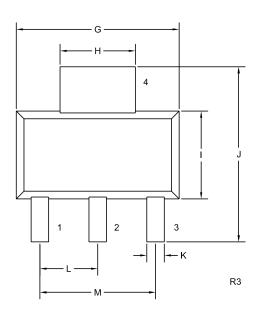
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SOT-223 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode
- 3) Gate 4) Anode

MARKING: **FULL PART NUMBER**

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0°	10°	0°	10°			
В	0.059	0.071	1.50	1.80			
С	0.018		0.45				
D	0.000	0.004	0.00	0.10			
Е	15°		15°				
F	0.009	0.014	0.23	0.35			
G	0.248	0.264	6.30	6.70			
Н	0.114	0.122	2.90	3.10			
	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			
Ĺ	0.091		2.30				
М	0.181		4.60				
COT 202 (DEV. D2)							

SOT-223 (REV: R3)

R3 (1-June 2015)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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