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Central
Semiconductor Corp.



**CQ89DS
CQ89MS
CQ89NS**

**2.0 AMP TRIAC
400 THRU 800 VOLTS**



SOT-89 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CQ89DS series types are epoxy molded silicon triacs designed for full wave AC control applications featuring gate triggering in all four (4) quadrants.

MAXIMUM RATINGS (T_C=25°C)

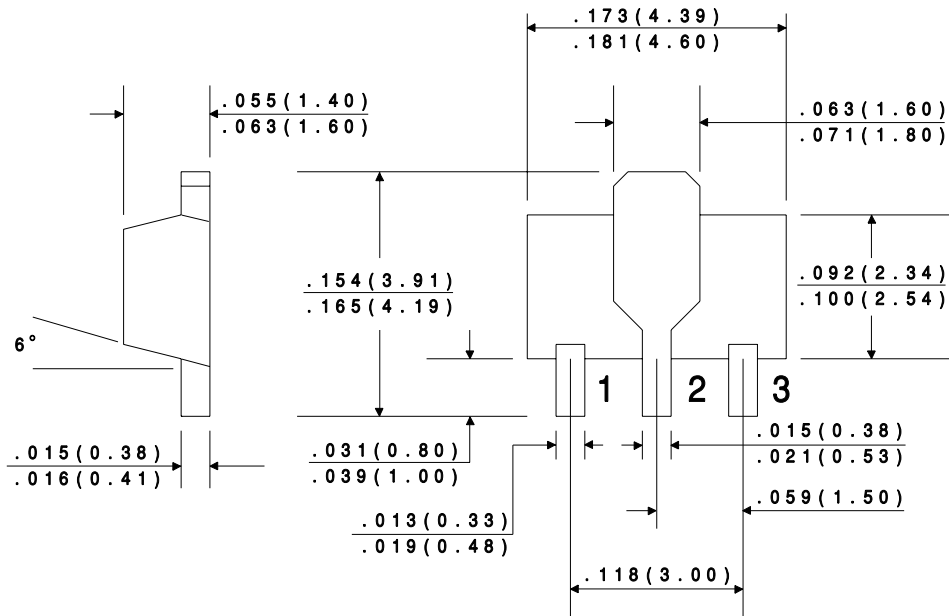
	SYMBOL	CQ89DS	CQ89MS	CQ89NS	UNITS
Peak Repetitive Off-State Voltage	V _{DRM}	400	600	800	V
RMS On-State Current (T _C =80°C)	I _{T(RMS)}		2.0		A
Peak One Cycle Surge (10ms)	I _{TSM}		10		A
Peak Gate Current	I _{GM}		1.0		A
Average Gate Power Dissipation	P _{G(AV)}		0.1		W
Storage Temperature	T _{stg}		-45 to +150		°C
Junction Temperature	T _J		-45 to +125		°C
Thermal Resistance	Θ _{J-C}		10		°C/W

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{DRM}	V _D =Rated V _{DRM}			5.0	μA
I _{DRM}	V _D =Rated V _{DRM} , T _C =125°C			200	μA
I _{GT}	V _D =12V, QUAD I, II, III, IV			5.0	mA
I _H	V _D =12V			5.0	mA
V _{GT}	V _D =12V			2.0	V
V _{TM}	I _T =3.0A			1.75	V
dv/dt	V _D =2/3 V _{DRM} , T _C =125°C	30			V/μs



All dimensions in inches (mm).



LEAD CODE:

- 1) GATE
- 2) MT2
- 3) MT1