

查询"CQ220I-6BS"供应商

CentralTM

Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CQ220I-6BS
CQ220I-6DS
CQ220I-6MS
CQ220I-6NS

ISOLATED TAB TRIAC
6.0 AMP, 200 THRU 800 VOLTS

JEDEC TO-220AB CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CQ220I-6BS series type is an Epoxy Molded Silicon Triac designed for full wave AC control applications featuring gate triggering in all four (4) quadrants. This device is mounted in a TO-220 case with an isolated mounting tab.

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

	SYMBOL	CQ220I -6BS	CQ220I -6DS	CQ220I -6MS	CQ220I -6NS	UNITS
Peak Repetitive Off-State Voltage	V_{DRM}	200	400	600	800	V
RMS On-State Current ($T_C = 90^\circ\text{C}$)	$I_{\text{T(RMS)}}$			6.0		A
Peak One Cycle Surge ($t = 10\text{ms}$)	I_{TSM}			60		A
I^2t Value for Fusing ($t = 10\text{ms}$)	I^2t			18		A^2s
Peak Gate Power ($t_p = 10\mu\text{s}$)	P_{GM}			40		W
Average Gate Power Dissipation	$P_{\text{G(AV)}}$			1.0		W
Peak Gate Current ($t_p = 10\mu\text{s}$)	I_{GM}			4.0		A
Peak Gate Voltage ($t_p = 10\mu\text{s}$)	V_{GM}			16		V
Critical Rate of Rise of On-State Current						
Repetitive ($F = 50\text{Hz}$)	di/dt			10		$\text{A}/\mu\text{s}$
Storage Temperature	T_{stg}		-40 to +150			$^\circ\text{C}$
Junction Temperature	T_{J}		-40 to +110			$^\circ\text{C}$
Thermal Resistance	$\theta_{\text{J-A}}$		60			$^\circ\text{C}/\text{W}$
Thermal Resistance	$\theta_{\text{J-C}}$		4.4			$^\circ\text{C}/\text{W}$
Isolation Voltage	V_{ISO}		2500			$V_{\text{(RMS)}}$

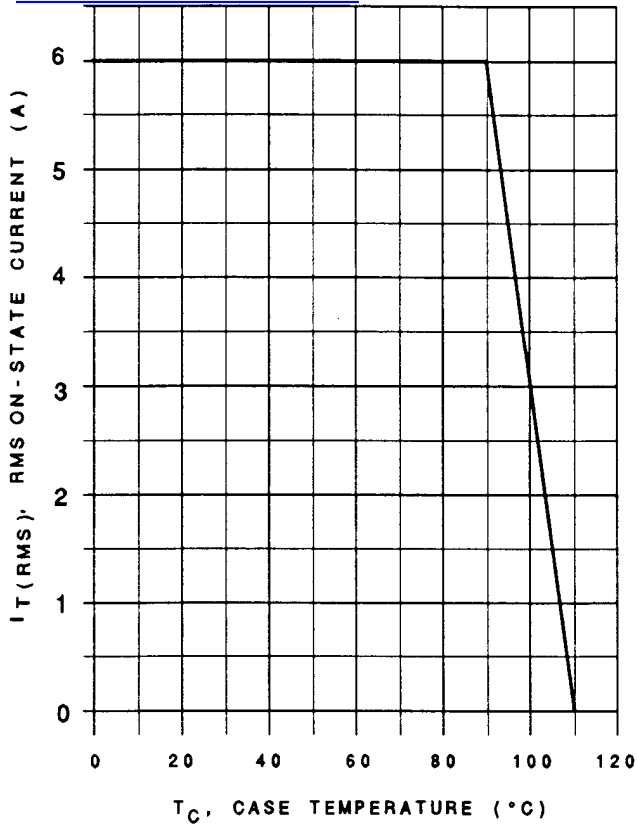
ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{DRM}	Rated V_{DRM}			0.01	mA
I_{DRM}	Rated V_{DRM} , $T_C = 110^\circ\text{C}$			0.75	mA
I_{GT}	$V_{\text{D}} = 12\text{V}$, $R_{\text{L}} = 33\Omega$, QUAD I,II,III			5.0	mA
I_{GT}	$V_{\text{D}} = 12\text{V}$, $R_{\text{L}} = 33\Omega$, QUAD IV			10	mA
I_{H}	$I_{\text{T}} = 100\text{mA}$			15	mA
V_{GT}	$V_{\text{D}} = 12\text{V}$, $R_{\text{L}} = 33\Omega$, QUAD I,II,III,IV			1.50	V
V_{TM}	$I_{\text{TM}} = 8.5\text{A}$, $t_p = 10\text{ms}$			1.65	V
dv/dt	$V_{\text{D}} = \frac{2}{3}V_{\text{DRM}}$, $R_{\text{GK}} = \infty$, $T_C = 110^\circ\text{C}$		10		$\text{V}/\mu\text{s}$

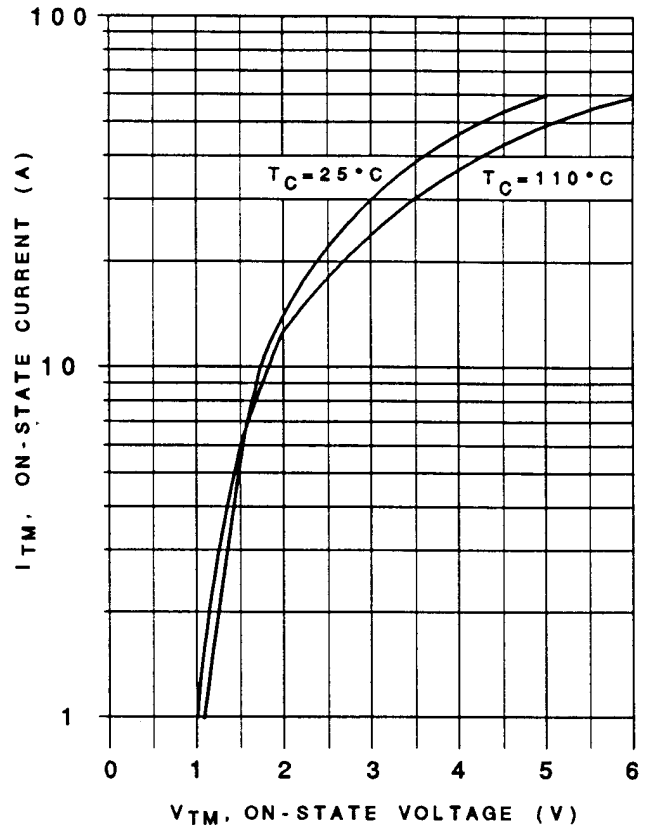
CQ220I-6BS SERIES RATING AND CHARACTERISTIC CURVES

RMS ON-STATE CURRENT vs. CASE TEMPERATURE

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MAXIMUM ON-STATE CHARACTERISTICS



MECHANICAL DIMENSIONS

All Dimensions in Inches (mm).

