查询CQ218I-40B供应商 捷多邦，专业PCB打样工厂，24小时加急出货

Data Sheet

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Manufacturers of World Class Discrete Semiconductors

CQ218I-40B
CQ218I-40D
CQ218I-40M
CQ218I-40N

ISOLATED TAB TRIAC
40 AMP, 200 THRU 800 VOLTS

TO-218 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CQ218I-40B 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-218 case with an isolated mounting tab.

MAXIMUM RATINGS ($T_C = 25°C$ unless otherwise noted)

	SYMBOL	CQ218I -40B	CQ218I -40D	CQ218I -40M	CQ218I -40N	UNITS
Peak Repetitive Off-State Voltage	V_{DRM}	200	400	600	800	V
RMS On-State Current ($T_C = 90°C$)	$I_{T(RMS)}$	40				A
Peak One Cycle Surge (t = 10ms)	I_{TSM}	300				A
I^2t Value for Fusing (t = 10ms)	I^2t	450				A^2s
Peak Gate Power (tp = 10µs)	P_{GM}	40				W
Average Gate Power Dissipation	$P_{G(AV)}$	1.0				W
Peak Gate Current (tp = 10µs)	I_{GM}	10				A
Peak Gate Voltage (tp = 10µs)	V_{GM}	16				V
Critical Rate of Rise of On-State Current Repetitive (F = 50Hz)	di/dt	10				A/µs
Storage Temperature	T_{stg}	-40 to +150				°C
Junction Temperature	T_J	-40 to +125				°C
Thermal Resistance	Θ_{J-A}	50				°C/W
Thermal Resistance	Θ_{J-C}	1.2				°C/W
Isolation Voltage	V_{ISO}	2500				$V_{(RMS)}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{DRM}	Rated V_{DRM}			0.01	mA
I_{DRM}	Rated V_{DRM}, $T_C = 125°C$			6.00	mA
I_{GT}	$V_D = 12V$, $R_L = 33\Omega$, QUAD I,II,III			50	mA
I_{GT}	$V_D = 12V$, $R_L = 33\Omega$, QUAD IV			100	mA
I_H	$I_T = 500mA$			80	mA
V_{GT}	$V_D = 12V$, $R_L = 33\Omega$, QUAD I,II,III,IV			1.50	V
V_{TM}	$I_{TM} = 56A$, tp = 10ms			1.80	V
dv/dt	$V_D = \frac{2}{3} V_{DRM}$, $R_{GK} = \infty$, $T_C = 125°C$	250			V/µs

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(OVER)

CQ218I-40B SERIES RATING AND CHARACTERISTIC CURVES

RMS ON-STATE CURRENT vs. CASE TEMPERATURE

MAXIMUM ON-STATE CHARACTERISTICS

MECHANICAL OUTLINE

ALL DIMENSIONS IN INCHES (mm).

Central