



160MT Series

POWER CONTROL SOLUTIONS

160 AMP THREE PHASE BRIDGE

Features

- High Thermal Efficiency
- Complete Power Control Circuits in a Single Package

DESCRIPTION

These modules provide complete power control in a single package, utilizing high thermal efficiency to assure long life and reliable performance. One standard model, provides 2500 Vrms isolation from all terminals to ceramic base and are UL recognition pending.

PART NUMBER IDENTIFICATION

EX.: 160MT120C3

Current	Series Type	Circuit Type	Voltage	C3 Semiconductors
160 - 160 Amps	MT - Case style	(see schematic diagram) Three Phase Bridge	60 - 600 80 - 800 100 - 1000 120 - 1200 140 - 1400 160 - 1600	C3

ELECTRICAL SPECIFICATIONS

160

SYMBOL	SPECIFICATION	RATINGS
I_D	Maximum DC Output Current ($T_c = 85^\circ\text{C}$)	160 Amps
V_F	Maximum Voltage Drop @ Amps Peak	1.43V @ $I_F=300\text{A}$
T_J	Operating Junction Temperature Range	-40°C to $+150^\circ\text{C}$
di/dt	Critical Rate of Rise of On-State Current @ $T_J=125^\circ\text{C}$	100A/ μs
dv/dt	Critical Rate of Rise of Off-State Voltage [V/ μs]	1000V/ μs
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line)	400 (120 Vac) 600 (240 Vac) 1000 (380 Vac) 1200 (480 Vac) 1400 (530 Vac) 1600 (600 Vac)
I_{TSM}	Maximum Non-Repetitive Surge Current ($1/2$ Cycle, 60Hz)	1500 A
I^2T	Maximum I^2T for Fusing ($t=8.3\text{ms}$) [$\text{A}^2 \text{sec}$]	9300
R_{qJC}	Maximum Thermal Resistance Junction to Ceramic Base per Chip	0.73 $^\circ\text{K/W}$
V_{ISOL}	Isolation Voltage	2500 V _{RMS}

MECHANICAL SPECIFICATIONS

Weight: (typical)

6.21 oz. (176g)

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For recommended applications and more information contact:
USA: Sales Support (888) 882-8689

Email: sales@c3semi.com WEB SITE: <http://www.C3semi.com>



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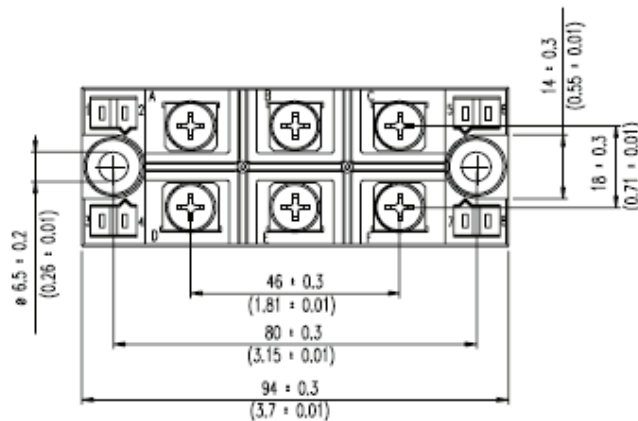
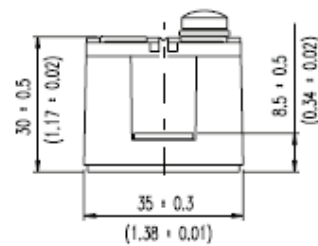
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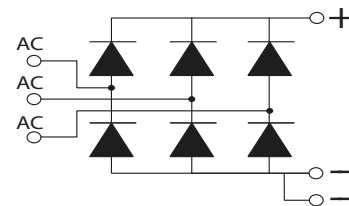
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MECHANICAL DIMENSIONS

Screws M5 x 0.8 Length 10



SERIES 160MT CIRCUIT



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