

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. Six standard models provide 2500 Vrms isolation from all terminals to ceramic base and are UL recognition pending.

PART NUMBER IDENTIFICATION

EX.: CMD25/12

 Series Type
 Current
 Voltage

 CMD-Case style
 25 - 25 Amps
 06 - 600

 40 - 40 Amps
 08 - 800

 10 - 1000

12 - 1200

ELECTRICAL SPECIFICATION 40 25 SYMBOL SPECIFICATION **RATINGS** ΙD Maximum DC Output Current (Tc = 85°C) 25 Amps 40 Amps V_{F} Maximum Voltage Drop @ Amps Peak 1.65V @ IF=25A 1.60V @ IF=40A -40°C to +125°C T **Operating Junction Temperature Range** di/dt Critical Rate of Rise of On-State Current @ TJ=125°C 100A/µs 100A/µs 500V/µs dv/dt Critical Rate of Rise of Off-State Voltage [V/µs] 500V/µs 400 (120 Vac) 600 (240 Vac) V_{RRM} Repetitive Peak Reverse Voltage (AC Line) 1000 (380 Vac) 1200 (480 Vac) Maximum Non-Repetitive Surge Current I_{TSM} (1/2Cycle, 60Hz) 250A 600A I²T Maximum I²T for Fusing (t=8.3ms) [A 260 1500 $\mathsf{R}_{\mathsf{qJC}}$ Maximum Thermal Resistance Junction to 0.9°K/W 0.7°K/W Ceramic Base per Chip 2500 V _{RMS} V_{ISOL} Isolation Voltage 2500 V _{RMS}

MECHANICAL SPECIFICATIONS

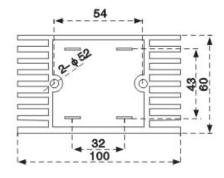
Weight: (typical) 1.7 oz. (43g)

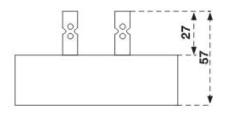
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For recommended applications and more information contact: USA: Sales Support (888) 882-8689

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

MECHANICAL DIMENSIONS AND CIRCUIT DIAGRAM

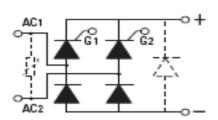




Package Dimensions TOP 25-40 Amp Models

Package Dimensions SIDE 25 and 40 Amp Models

SERIES CMD CIRCUIT



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