



130-180 Amp • THYRISTOR/DIODE Module

Features

- Industry Standard Package and Circuits
- Power Control Building Blocks

DESCRIPTION

Modules come in an industry standard package, offering three circuits that can be used singly or as power control building blocks. All models feature highly efficient thermal management for greatly extended cycle life.

PART NUMBER IDENTIFICATION

Ex.: CSKT162/16E

Series Type	Circuit Type	Current	Voltage
CSK -Case style	(see schematic diagrams) Example: T	132 - 130 Amps 162 - 165 Amps 172 - 180 Amps	08E - 800 10E - 1000 12E - 1200 14E - 1400 16E - 1600

ELECTRICAL SPECIFICATIONS

SYMBOL	SPECIFICATION	132	162	172
I_D	Maximum DC Output Current ($T_c = 85^\circ\text{C}$) [A]	130	165	180
V_F	Maximum Voltage Drop @ $I_F = 300\text{A}$ pk	1.36V	1.36V	1.25V
T_J	Operating Junction Temperature Range	-40°C to +125°C		
di/dt	Critical Rate of Rise of On-State Current @ $T_J = 125^\circ\text{C}$ [A/ μs]	500	500	500
dv/dt	Critical Rate of Rise of Off-State Voltage [V/ μs]	1000	1000	1000
V_{RRM}	Repetitive Peak Reverse Voltage (AC Line Nominal) [Vpk]	800 (280 Vac) 1000 (380 Vac) 1200 (480 Vac) 1400 (530 Vac) 1600 (600 Vac)		
I_{TSM}	Maximum Non-Repetitive Surge Current ($1/2$ Cycle, 60Hz) [A] @ 45°C	5850	6400	6400
I^2T	Maximum I^2T for Fusing ($t = 8.3\text{ms}$) [A ² sec] @ 45°C	142000	170000	170000
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C [mA]	150	150	150
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C [V]	2.5	2.5	2.5
$P_{G(AV)}$	Average Gate Power [W]	0.375	0.375	0.375
V_{GM}	Maximum Peak Gate Voltage (Reverse) [V]	5.0	5.0	5.0
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip [*K/W]	0.115	0.1125	0.1125
V_{ISOL}	Isolation Voltage [VRMS]	3000	3000	3000

MECHANICAL SPECIFICATIONS

Weight: (typical)	4.41 oz. (125g)
Torque Required	Terminal Stud Screw : 30 inch lb Mounting Screw : 20 inch lb

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For recommended applications and more information contact:
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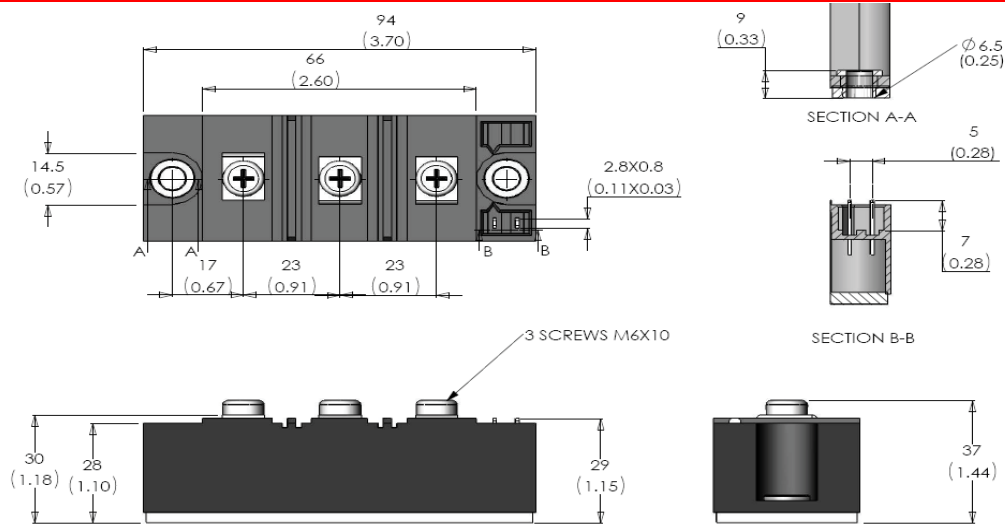
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MECHANICAL DIMENSIONS All dimensions are in millimeters (inches)



CSK SERIES CIRCUITS

