

Glass Passivated Three Phase Rectifier Bridge ,60A

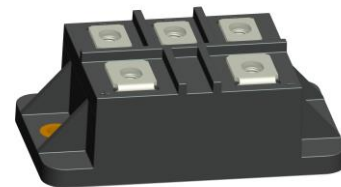
Features

- Three phase bridge rectifier
- Blocking Voltage: 800 to 1800V
- Heat transfer through aluminum oxide DBC
Ceramic isolated metal baseplate
- Glass passivated chip
- 2500 V_{RMS} isolating voltage

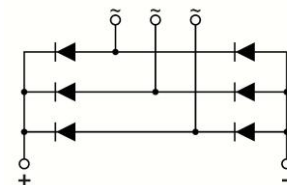
Typical Applications

- Three phase rectifiers for power supplies
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Input rectifiers for variable frequency drives

S8 Package



CSD



Module Type

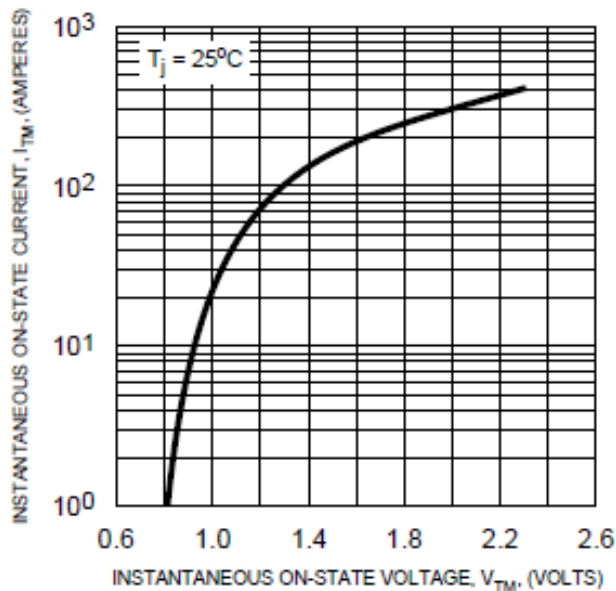
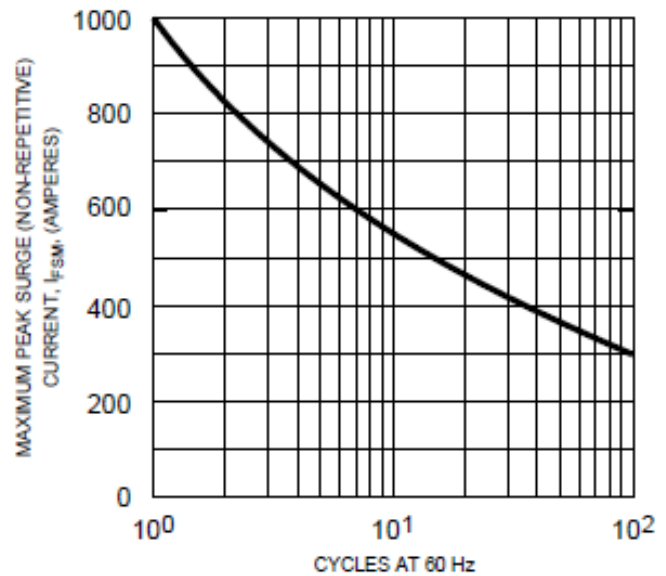
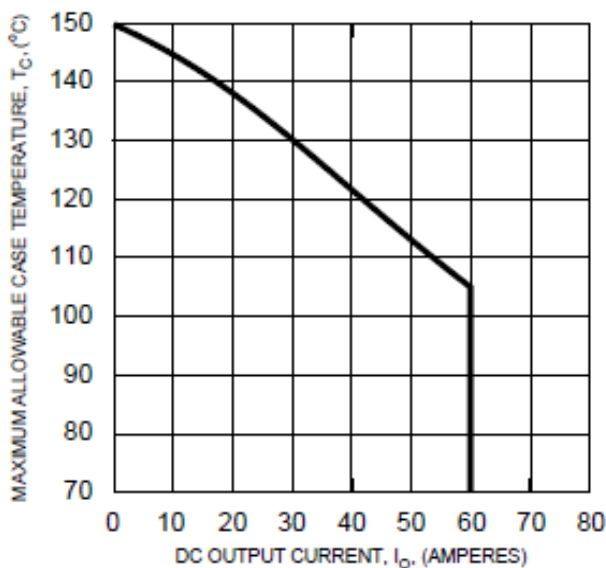
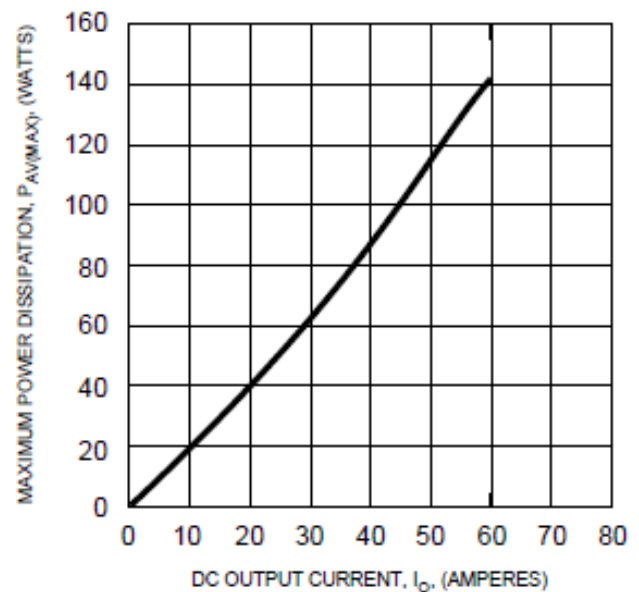
Type	V _{DRM}	V _{RSM}
CSD60B-08	800V	900V
CSD60B-12	1200V	1300V
CSD60B-16	1600V	1700V
CSD60B-18	1800V	1900V

Absolute Maximum Ratings

Parameters	Symbol	Test Conditions	Values	Unit
Output current(D.C)	I _D	T _c =100°C	60	A
Forward surge current,max.	I _{FSM}	t=10mS T _{VJ} =45°C	600	A
Maximum I ² t for fusing	I ² t	t=10mS T _{VJ} =45°C	2000	A ² s
Isolation Breakdown Voltage(R.M.S)	Visol	Ac.50Hz; R.M.S; 1min	2500	V
		Ac.50Hz; R.M.S; 1sec	3500	V
Maximum junction temperature	T _{VJ}		-40~+150	°C
Storage Temperature	T _{stg}		-40~+125	°C
Mounting Torque	Mt	To terminals(M5)	3 ± 15%	Nm
	Ms	To heatsink(M5)	5 ± 15%	
Module(Approximately)	Weight		120	g

Electrical Specifications

Parameters	Symbol	Test Conditions	Values			Unit
			Min.	Typ.	Max.	
Maximum Forward voltage drop	V_{FM}	$T=25^{\circ}\text{C}$ $I_F=75\text{A}$	—	1.10	1.35	V
Maximum Repetitive Peak Reverse Current	I_{RRM}	$T_J=25^{\circ}\text{C}$ $V_{RD}=V_{RRM}$	—	—	100	μA
		$T_J=150^{\circ}\text{C}$ $V_{RD}=V_{RRM}$	—	—	5	mA
Thermal Impedance,max	R_{thjc}	Junction to case	—	—	0.3	$^{\circ}\text{C/W}$

MAXIMUM ON-STATE CHARACTERISTICS

MAXIMUM ALLOWABLE PEAK SURGE (NON-REPETITIVE) CURRENT

MAXIMUM ALLOWABLE CASE TEMPERATURE

MAXIMUM ON-STATE POWER DISSIPATION


Ordering Information Tabel

Device code

C SD 60 B - 16

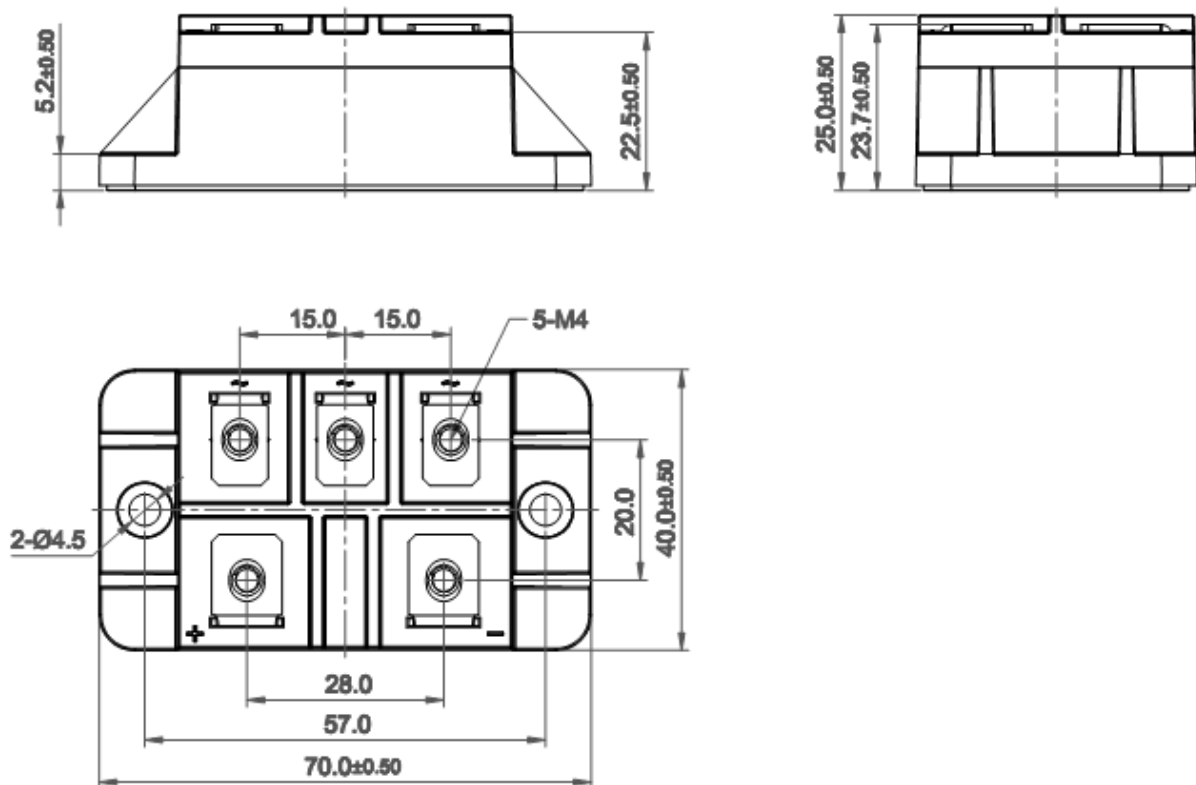
CE's power module

Three phase rectifier bridge

Output current (D.C. 60A)

B = S8 package

Voltage rating (16 = 1600V)

Package Outline Information
S8 Package


Dimensions in mm