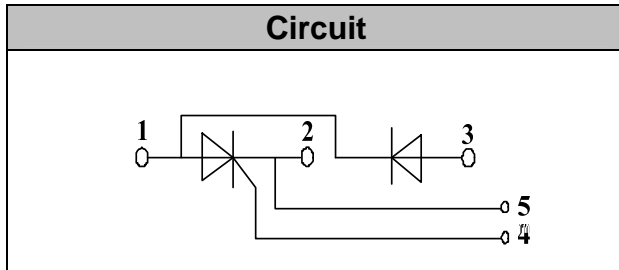


## Thyristor/Diode Modules

**VRRM / VDRM** 800 to 1800V  
**IFAV / ITAV** 40A

### Applications

Power Converters  
Lighting Control  
DC Motor Control and Drives  
Heat and temperature control



### Features

International standard package  
High Surge Capability  
Glass passivated chip  
Simple Mounting  
Heat transfer through aluminum oxide DBC  
ceramic isolated metal baseplate  
UL recognized applied for file no. E230084

### Module Type

TYPE	VRRM/VDRM	VRSM
MT40CB08T1	800V	900V
MT40CB12T1	1200V	1300V
MT40CB16T1	1600V	1700V
MT40CB18T1	1800V	1900V

### Diode

#### Maximum Ratings

Symbol	Item	Conditions	Values	Units
ID	Output Current(D.C.)	Tc=85	40	A
IFSM	Surge forward current	t=10mS Tvj =45	1000	A
i <sup>2</sup> t	Circuit Fusing Consideration		5000	A <sup>2</sup> s
Visol	Isolation Breakdown Voltage(R.M.S)	a.c.50HZ;r.m.s.;1min	3000	V
Tvj	Operating Junction Temperature		-40 to +125	
Tstg	Storage Temperature		-40 to +125	
Mt	Mounting Torque	To terminals(M5)	3±15%	Nm
Ms		To heatsink(M6)	5±15%	Nm
Weight	Module Approximately		100	g

#### Thermal Characteristics

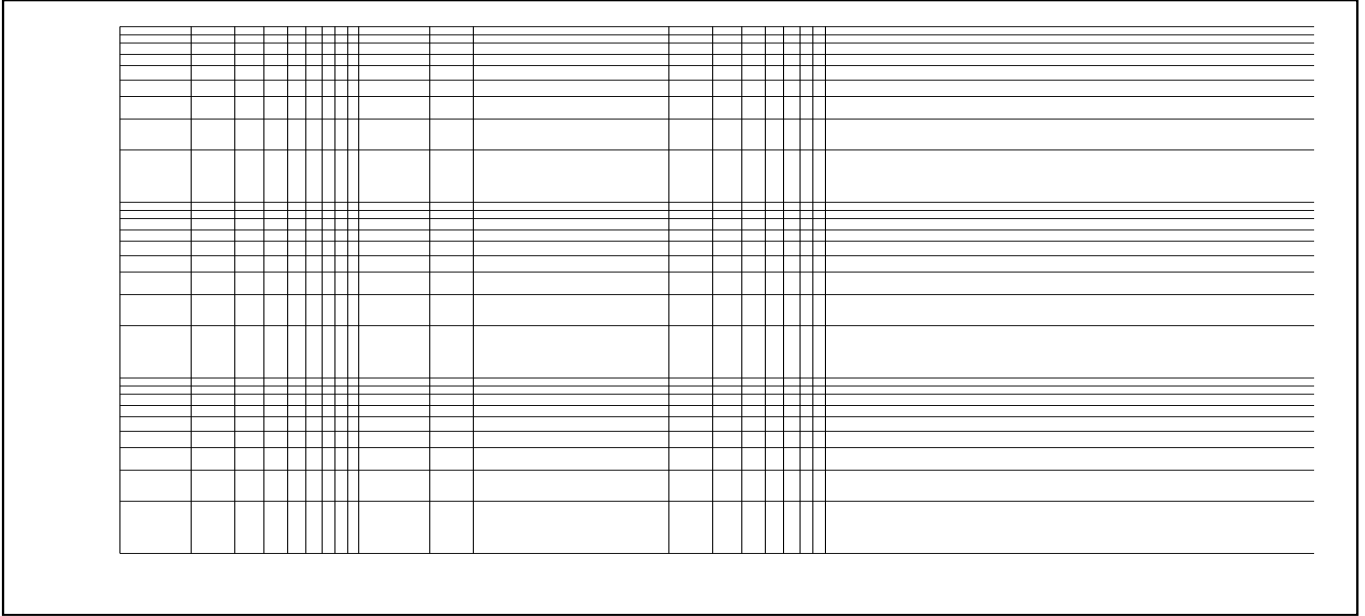
Symbol	Item	Conditions	Values	Units
Rth(j-c)	Thermal Impedance, max.	Junction to Case	0.33	/W
Rth(c-s)	Thermal Impedance, max.	Case to Heatsink	0.10	/W

#### Electrical Characteristics

Symbol	Item	Conditions	Values			Units
			Min.	Typ.	Max.	
VFM	Forward Voltage Drop, max.	T=25 IF =200A			1.95	V
IRRM	Repetitive Peak Reverse Current, max.	Tvj =25 VRD=VRRM	0.5			mA
		Tvj =125 VRD=VRRM	6			mA







**Package Outline Information**



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Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box				

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