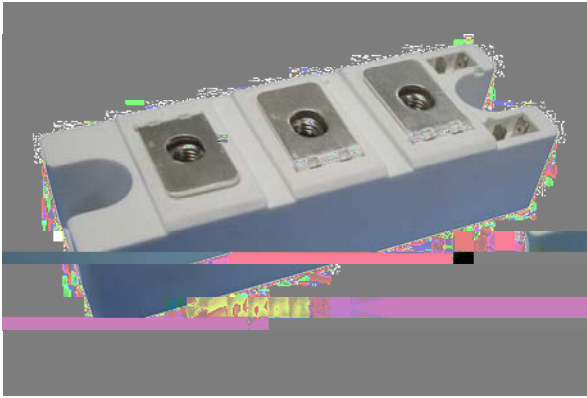




Thyristor/Diode Modules

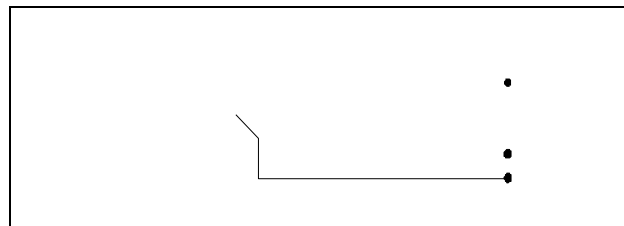
VRRM / VDRM 800 to 1800V
IFAV / ITAV 130A

Applications

- Power Converters
-

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. E360040



Module Type

TYPE	VRRM/VDRM	VRSM
MT130CB08T2	800V	900V
MT130CB12T2	1200V	1300V
MT130CB16T2	1600V	1700V
MT130CB18T2	1800V	1900V

Diode

Maximum Ratings

Symbol	Item	Conditions	Values	Units
ID	Output Current(D.C.)	Tc=85	130	A
IFSM	Surge forward current	t=10mS Tvj =45	4700	A
i ² t	Circuit Fusing Consideration		110000	A ² 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(M6)	3±15%	Nm
Ms		To heatsink(M6)	5±15%	Nm
Weight	Module Approximately		165	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
Rth(j-c)	Thermal Impedance, max.	Junction to Case	0.09	/W
Rth(c-s)	Thermal Impedance, max.	Case to Heatsink	0.05	/W

Electrical Characteristics

Symbol	Item	Conditions	Values			Units
			Min.	Typ.	Max.	
VFM	Forward Voltage Drop, max.	T=25 IF =500A			1.80	V
IRRM	Repetitive Peak Reverse Current, max.	Tvj =25 VRD=VRRM Tvj =125 VRD=VRRM		≤0.5 ≤9		mA mA



Thyristor Maximum Ratings

Thermal Characteristics



Performance Curves

