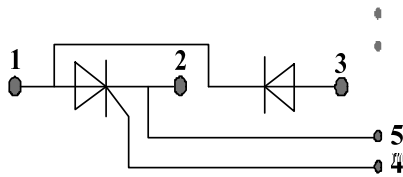




### Applications

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

### Circuit



Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate  
 • UL recognized applied for file no. E360040

### Module Type

TYPE	VRRM/VDRM	VRSM
MT90CB08T1	800V	900V
MT90CB12T1	1200V	1300V
MT90CB16T1	1600V	1700V
MT90CB18T1	1800V	1900V

### 1 Diode

#### Maximum Ratings

Symbol	Item	Conditions	Values	Units
$I_D$	Output Current(D.C.)	$T_c=85$	90	A
$I_{FSM}$	Surge forward current	$t=10mS$ $T_{vj}=45$	2000	A
$i^2t$	Circuit Fusing Consideration		20000	$A^2s$
$V_{isol}$	Isolation Breakdown Voltage(R.M.S)	a.c.50HZ;r.m.s.;1min	3000	V
$T_{vj}$	Operating Junction Temperature		-40 to +125	
$T_{stg}$	Storage Temperature		-40 to +125	
$M_t$	Mounting Torque	To terminals(M5)	$3\pm 15\%$	Nm
$M_s$		To heatsink(M6)	$5\pm 15\%$	Nm
Weight	Module $\ddot{A}$ Approximately $\ddot{A}$		100	g

#### Thermal Characteristics

Symbol	Item	Conditions	Values	Units
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## <sup>1</sup> Thyristor Maximum Ratings

### Thermal Characteristics

Symbol	Item	Conditions	Values	Units
$R_{th(j-c)}$				



## Performance Curves

