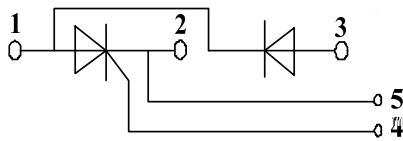




Applications

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

Circuit



- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- y 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	$t=10\text{mS}$ $T_{vj}=45$	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 ˆˆApproximately ˆˆ		100	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
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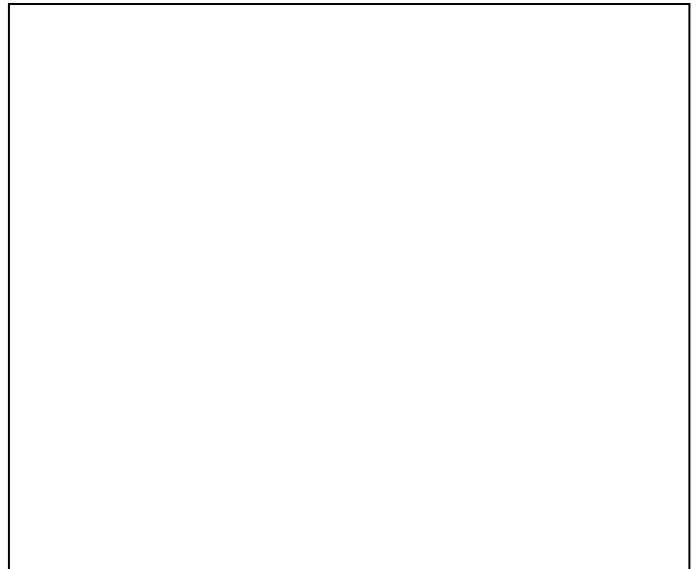
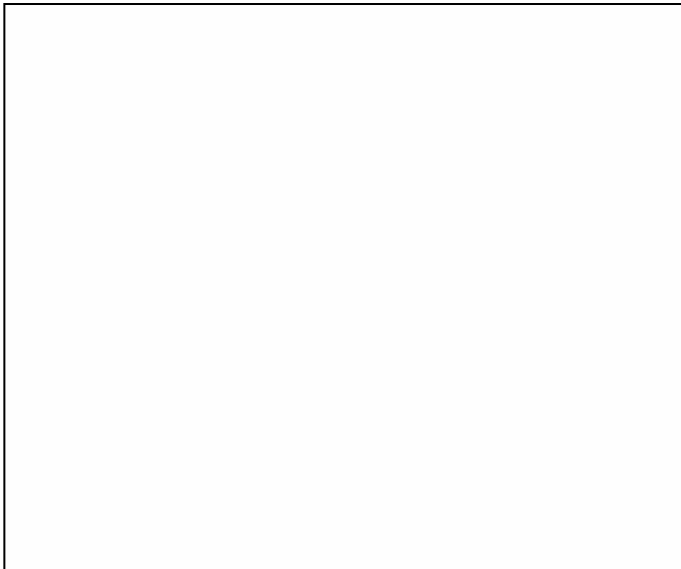
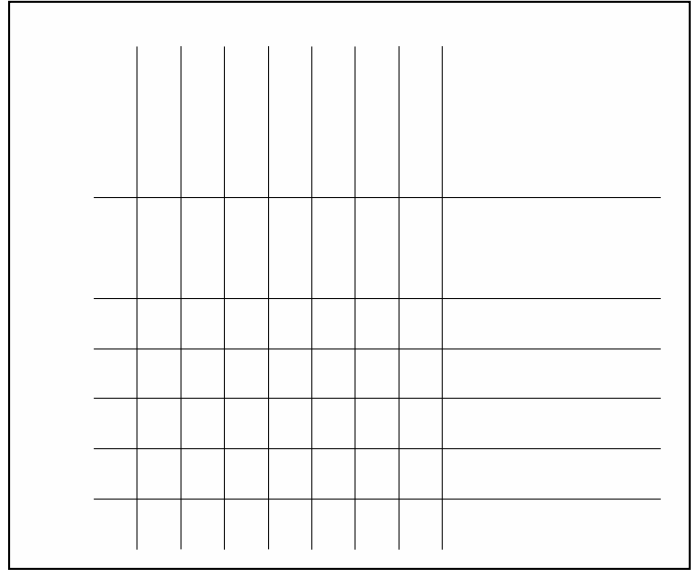
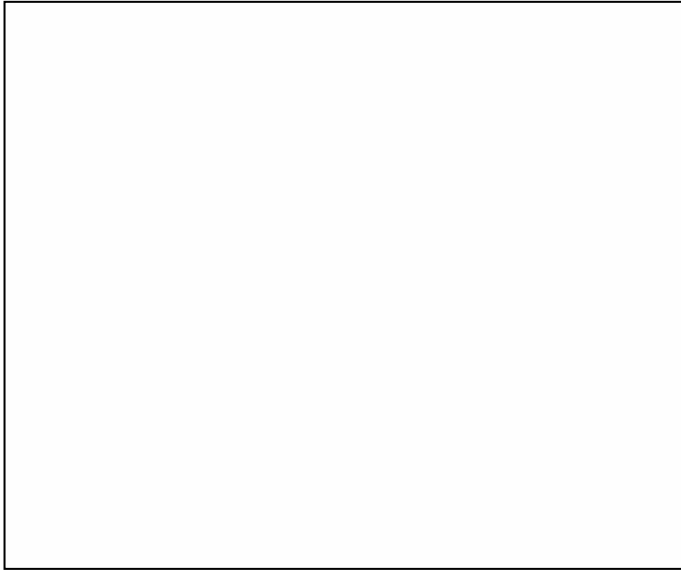
¹ Thyristor
Maximum Ratings

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
R _{th(j-c)}				



Performance Curves



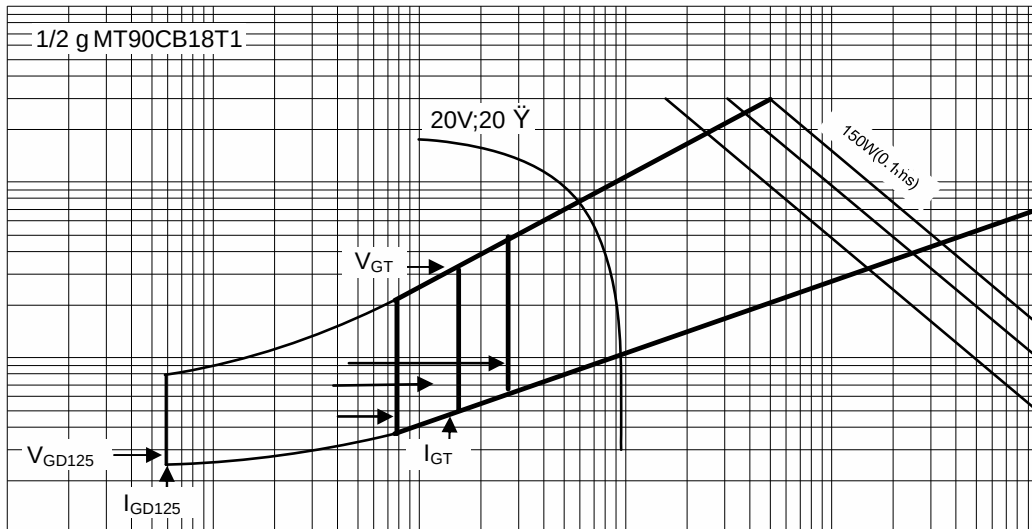
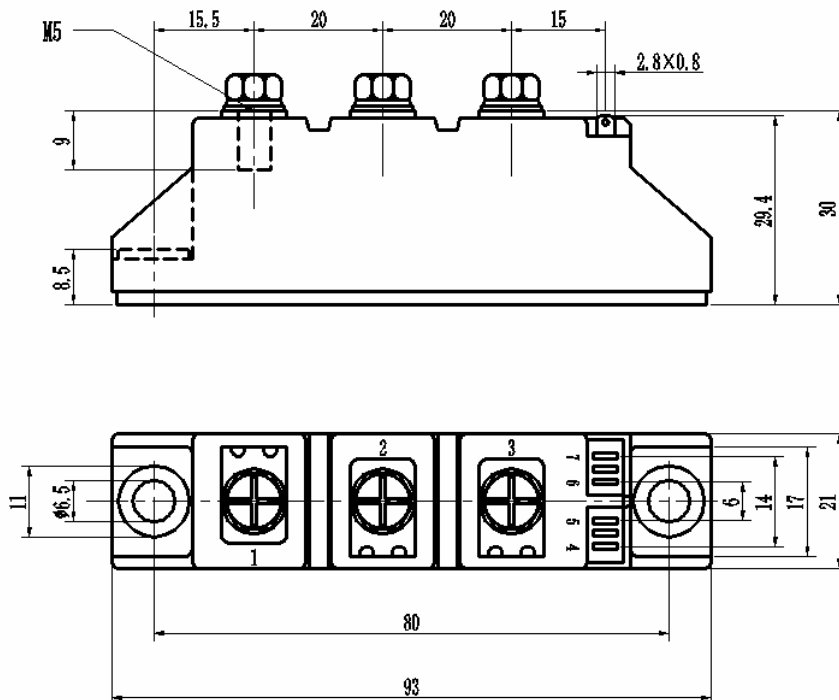


Fig6. Gate trigger Characteristics

Package Outline Information

CASE: T1



Dimensions in mm