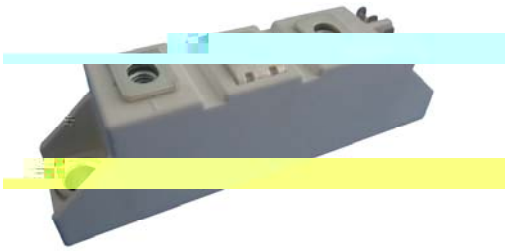
MT25C-T1

RoHS COMPLIANT



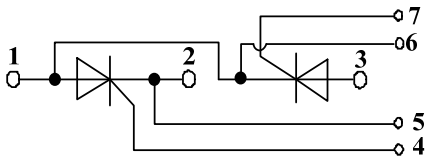
Thyristor Module

VRRM / VDRM 800 to 1800V
ITAV 25A

Applications

MT25C08T1 Power Converter 800V
MT25C12T1 1200V
MT25C16T1 1600V
MT25C18T1 1800V

Circuit



Module Type

Maximum Ratings

Symbol	Conditions	Values	Units
I_{TAV}	Sine 180°;Tc=85	25	A
I_{TSM}	T_{VJ}=45 t=10ms, sine T_{VJ}=125 t=10ms, sine	550 480	A
i^2t	T_{VJ}=45 t=10ms, sine T_{VJ}=125 t=10ms, sine	1500 1150	A2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 125	
Tstg		-40 to 125	
Mt	To terminals(M5)	3 ± 15%	Nm
Ms	To heatsink(M6)	5 ± 15%	Nm
di/dt	T_{VJ}= T_{VJM} , 2/3V_{DRM} ,I_G =500mA Tr<0.5us,tp>6us	150	A/us
dv/dt	T_J= T_{VJM} ,2/3V_{DRM} linear voltage rise	1000	V/us
a	Maximum allowable acceleration	50	m/s^2
Weight	Module(Approximately)	100	g

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	Cont.;per thyristor / per module	0.9/0.45	/W
Rth(c-s)	per thyristor / per module	0.2/0.1	/W

Perform