



Thyristor Module

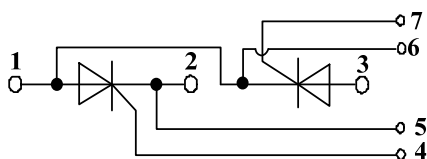
V_{RRM} / V_{DRM} 800 to 1800V
 I_{TAV} 25A

Applications

MT25C08T1 Power Converter Tc=222 Tw5V
MT25C12T1
MT25C16T1
MT25C18T1

800V
1200V
1600V
1800V

Circuit



Module Type

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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)	$3 \pm 15\%$	Nm
Ms	To heatsink(M6)	$5 \pm 15\%$	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



MT25C-T1



Performance

