



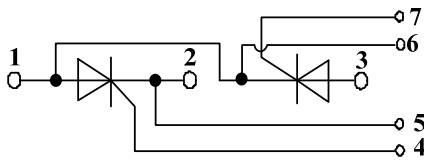
Thyristor Module

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

Applications

MT25C08T1	Power Converter	$T_c=22^\circ C$	Tw5V	800V
MT25C12T1				1200V
MT25C16T1				1600V
MT25C18T1				1800V

Circuit



Module Type

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Maximum Ratings

Symbol	Conditions	Values	Units
I_{TAV}	Sine 180°; $T_c=85$	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	A ² s
V_{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to 125	
T_{stg}		-40 to 125	
M_t	To terminals(M5)	$3 \pm 15\%$	Nm
M_s	To heatsink(M6)	$5 \pm 15\%$	Nm
di/dt	$T_{VJ}=T_{VJM}$, $2/3V_{DRM}$, $I_G=500mA$ $Tr<0.5\mu s$, $tp>6\mu s$	150	A/ μs
dv/dt	$T_J=T_{VJM}$, $2/3V_{DRM}$ linear voltage rise	1000	V/ μs
a	Maximum allowable acceleration	50	m/s ²
Weight	Module(Approximately)	100	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Cont.;per thyristor / per module	0.9/0.45	/W
$R_{th(c-s)}$	per thyristor / per module	0.2/0.1	/W



MT25C-T1



Performance

