

Thyristor Modules

V_{RRM} / V_{DRM} 800 to 1800V
I_{TAV} 60A

Features

- y International standard package
- y High Surge Capability
- y Glass passivated chip
- y Simple Mounting
- y Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- y UL recognized applied for file no. E360040

Module Type

TYPE	V _{RRM}	V _{RSM}
MT60C08T1	800V	900V
MT60C12T1	1200V	1300V
MT60C16T1	1600V	1700V
MT60C18T1	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I _{TAV}	Sine 180°;T _c =85	60	A
I _{TSM}	T _{VJ} =45 t=10ms, sine T _{VJ} =125 t=10ms, sine	1500 1250	A
i ² t	T _{VJ} =45 t=10ms, sine T _{VJ} =125 t=10ms, sine	11000 8000	A ² s
Visol Tvj	a.c.50HZ;r.m.s.;1min	3000 -40 to 125	V

Thermal Characteristics

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{TM}	$T=25 \quad I_{TM}=200A$			1.65	V
I_{RRM}/I_{DRM}	$T_{VJ}=T_{VJM}, V_R=V_{RRM}, V_D=V_{DRM}$			15	mA
V_{TO}	For power-loss calculations only ($T_{VJ}=125$)			0.9	V
r_T	$T_{VJ}=T_{VJM}$			3.5	mΩ
V_{GT}	$T_{VJ}=25, V_D=6V$			3.0	V
I_{GT}	$T_{VJ}=25, V_D=6V$			150	mA
V_{GD}	$T_{VJ}=125, V_D=2/3V_{DRM}$			0.25	V
I_{GD}	$T_{VJ}=125, V_D=2/3V_{DRM}$			6	mA
I_L	$T_{VJ}=25, R_G=33 \Omega$		300	600	mA
I_H	$T_{VJ}=25, V_D=6V$		150	250	mA
tgδ	$T_{VJ}=25, I_G=1A, di_G/dt=1A/us$	1			us
tq	$T_{VJ}=T_{VJM}$	80			us

Performance Curves



