



SCOMES

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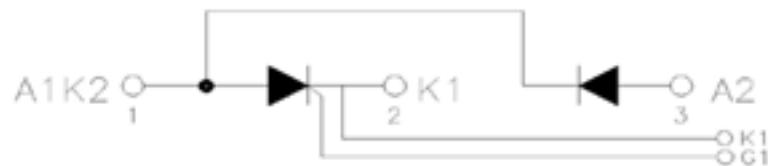


MRH95.16-M01 Thyristor/Diode Modules

Output Current 95 A
V_{RRM}/V_{DRM} 1600 V

Features
 International standard package
 Simple mounting

Applications
 Power converters
 Lighting control
 DC motor control and drives



Symbol	Characteristic	Test Conditions	Value			Unit
			Min	Type	Max	
I _{T(AV)}	Mean on-state current	180° half sine wave 50Hz T _c =85°C			95	A
I _{DRRM}	Repetitive peak current	at V _{DRM} T _J =125°C			30	mA
I _{RRM}		t at V _{RRM} T _J =125°C				
I _{TSM}	Surge on-state current	T _J =45°C t=10mS sine			2200	A
I ² t	I ² t for fusing coordination	T _J =45°C V _R =0,6V _{RRM}			26000	A ² s
V _{TO}	Threshold voltage	T _J =125°C			0,85	V
r _T	On-state slope resistance	T _J =125°C			1,5	mΩ
V _{TM}	Peak on-state voltage	T=25°C I _T =330A			1,70	V
dV/dt	Critical rate of rise of off-state voltage	T _J =125°C,2/3V _{DRM} , Linear voltage rise			1000	V/μs
di/dt	Critical rate of rise of off-state current	T _J =125°C,2/3V _{DRM} , I _{GM} =1500mA Tr<0,5μs, tp>6μs			150	A/μs
I _{GT}	Gate trigger current	T=25°C V _D =6V			150	mA
V _{GT}	Gate trigger voltage	T=25°C V _D =6V			3	V
I _H	Holding current	T=25°C V _D =6V			150	400 mA
V _{GD}	Non-trigger gate voltage	T _J =125°C,2/3V _{DRM} ,			0,25	V
R _{th(j_c)}	Thermal resistance Junction to case				0,17	°C/W
R _{th(c_h)}	Thermal resistance case to heatsink				0,05	°C/W
V _{iso}	Isolation voltage	ac 50Hz RMS t=1min I _{iso} =1mA(max)	2500			V
F _m	Terminal connection torque	M5		5		Nm
	Mounting torque	M6		5		Nm
T _{stg}	Stored temperature		-40		125	°C
W _t	Weight			120		g

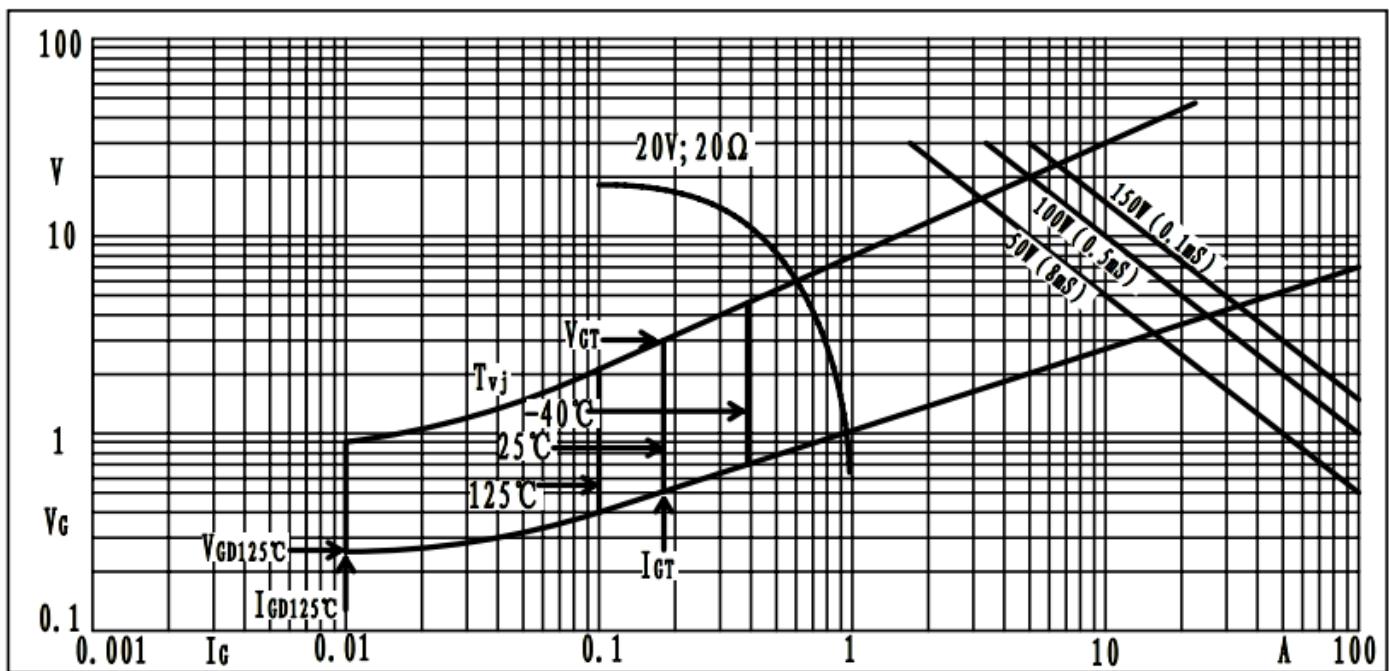


Fig1. Gate trigger characteristics

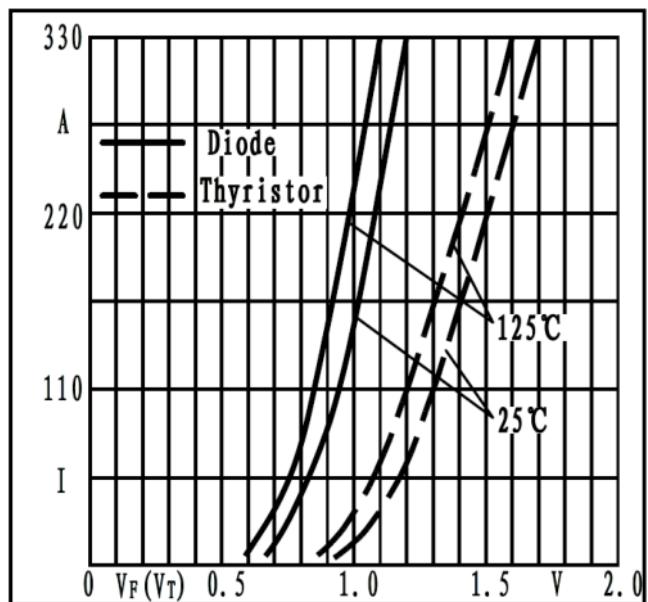


Fig2. Forward characteristics

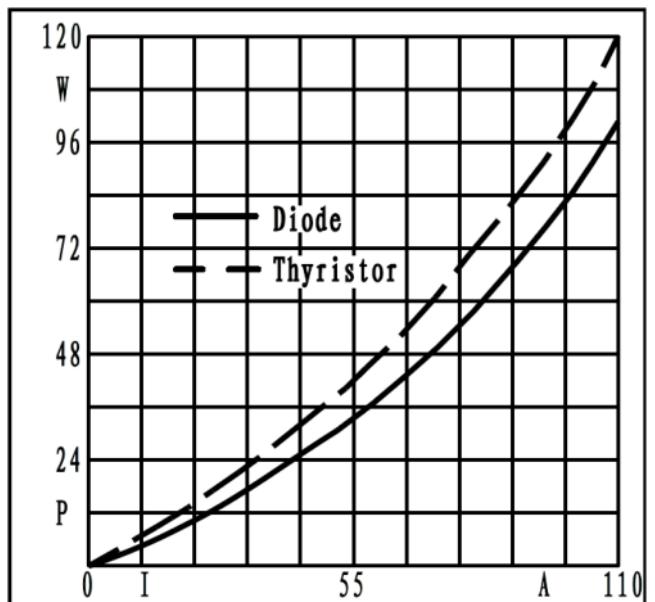


Fig3. Power dissipation

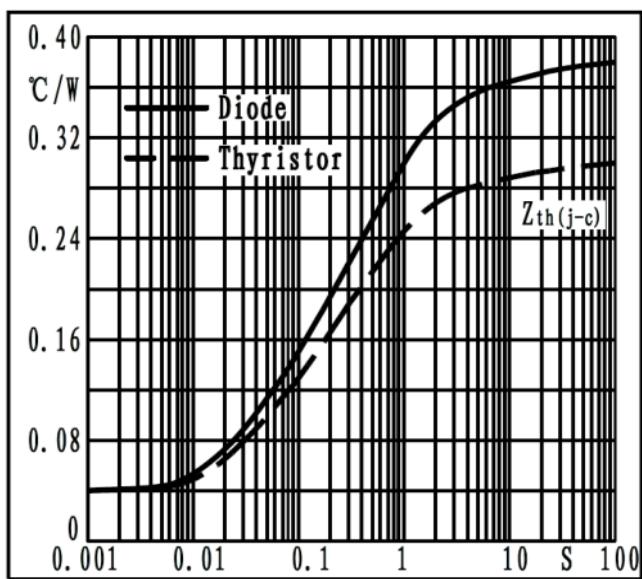


Fig.4. Transient thermal impedance

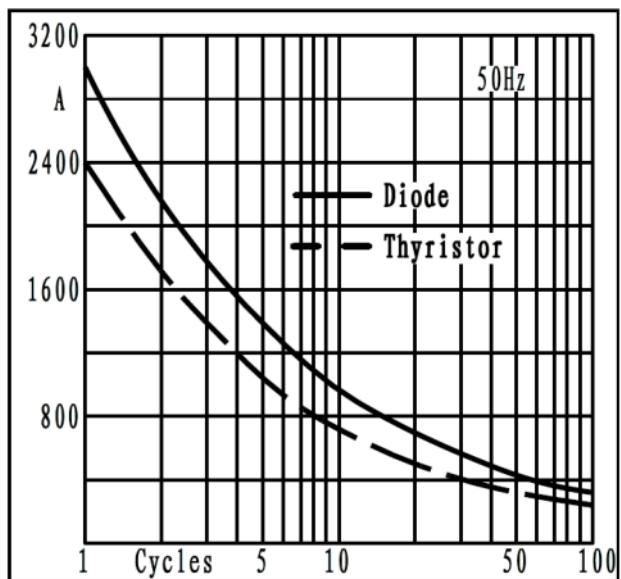


Fig.5. Max non-repetitive forward surge current

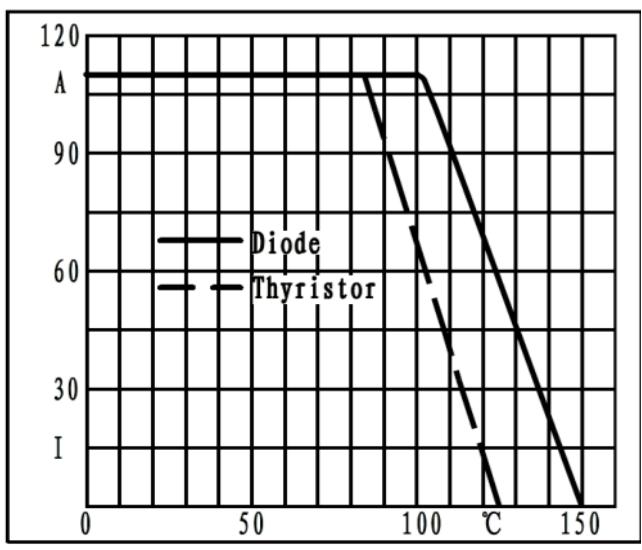
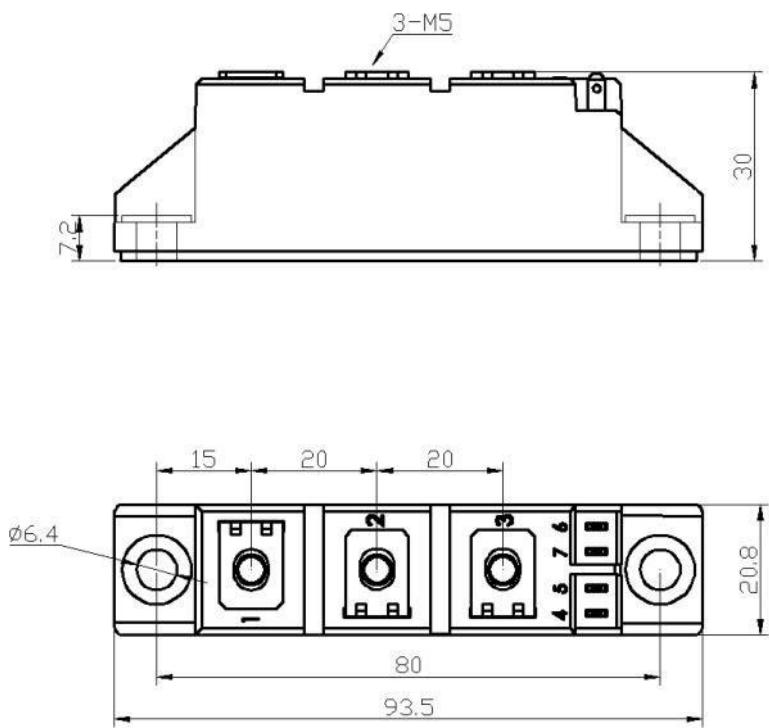


Fig.6. Forward current derating curve



(dimensions in mm)

Fig.1 MRT95.16-SS5-FIX6-XP-P80-TP
Code:990000950000