

Triacs sensitive gate

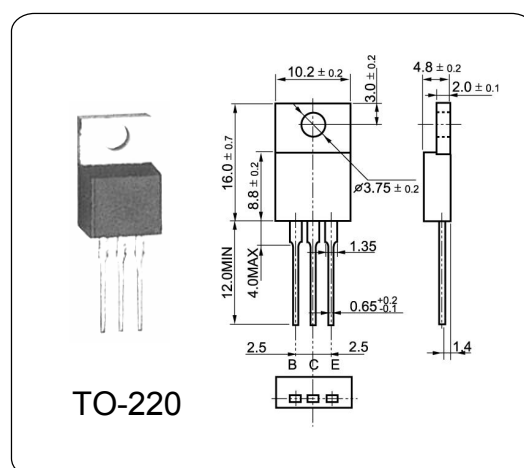
5P4M 5P5M 5P6M

GENERAL DESCRIPTION

Passivated thyristors in a plastic envelope, intended for use in applications requiring high bidirectional blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial domestic lighting, heating and static and switching.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Typ			Unit
		5P4M	5P5M	5P6M	
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	400	500	600	V
RMS on-state current	$I_{\text{T(AV)}}$	5.0			A
Non-repetitive peak on-state current	I_{TSM}	80			A
Max. Operating Junction Temperature	T_j	110			$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-45~150			$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25\text{ }^{\circ}\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		—	400 ~600	—	V
RMS on-state current	$I_{\text{T(AV)}}$	full sine wave; $T_{\text{mb}} \leq 103\text{ }^{\circ}\text{C}$	—	5.0	—	A
On-state voltage	V_T	$I_T = 10\text{ A}$	—	—	1.4	V
Holding current	I_H	$V_D = 24\text{ V}$; $I_{\text{GT}} = 0.1\text{ A}$	—	10	—	mA
Gate trigger current	I_{GT}	$V_D = 6.0\text{ V}$; $R_L = 100\text{ }\Omega$	—	—	10	mA
Gate trigger voltage	V_{GT}	$V_D = 6.0\text{ V}$; $R_L = 100\text{ }\Omega$	—	—	1.5	V