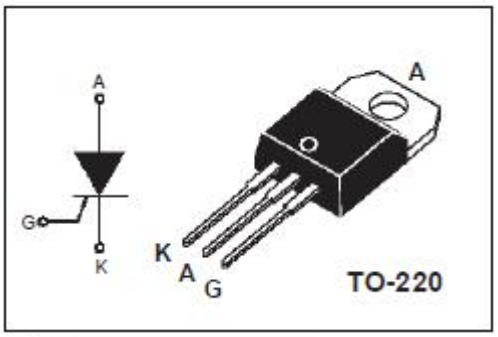
isc Thyristors — TYN610

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection,motor control circuits in power tools and kitchen aids,in-rush current limiting circuits, . capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER		MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage		800	V
V_{RRM}	Repetitive peak reverse voltage		800	V
$I_{T(RMS)}$	RMS on-state current @Tc=90℃		10	A
$I_{T(AV)}$	Average on-state current @Tc=100℃		6.4	A
I_{TSM}	Surge non-repetitive on-state current	Tp=8.3ms	105	A
		Tp=10ms	100	
T_j	Operating junction temperature		-40~125	℃
T_{stg}	Storage temperature		-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RRM} Rated	T_j=25℃ T_j=110℃		0.01 2	mA
I_{DRM}	Repetitive peak off-state current	V_{DRM} Rated	T_j=25℃ T_j=110℃		0.01 2	mA
V_{TM}	On-state voltage	I_{TM}= 20A;T_p=380 μ s			1.6	V
I_{GT}	Gate-trigger current	V_D = 12 V;R_L=33 Ω			15	mA
V_{GT}	Gate-trigger voltage	V_D = 12 V;R_L=33 Ω			1.5	V
$R_{th(j-c)}$	Thermal resistance	Junction to case			2.5	℃/W

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