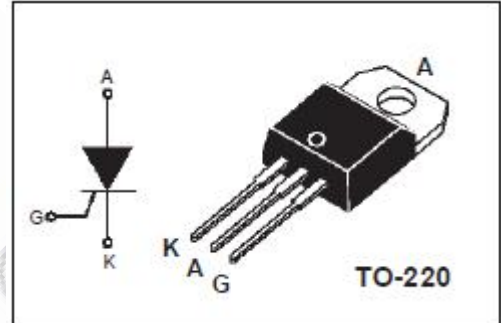


isc Thyristors

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°C)

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 @T _c =90°C	10	A
I _{T(AV)}	Average on-state current @T _c =100°C	6.4	A
I _{TSM}	Surge non-repetitive on-state current	T _p =8.3ms	105
		T _p =10ms	100
T _j	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RRM} Rated T _j =25°C T _j =110°C		0.01 2	mA
I _{DRM}	Repetitive peak off-state current	V _{DRM} Rated T _j =25°C T _j =110°C		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	°C/W