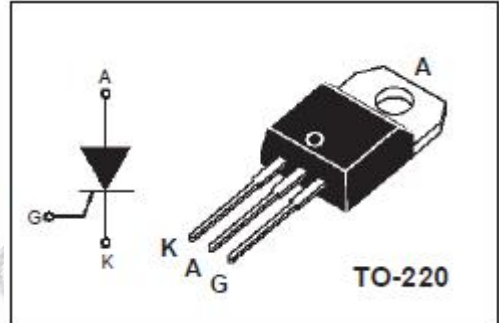


isc Thyristors

TYN625

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	25	A
I _{T(AV)}	Average on-state current	16	A
I _{TSM}	Surge non-repetitive on-state current	314	A
T _j	Operating junction temperature	110	°C
T _{stg}	Storage temperature	-45~150	°C

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _H	Holding current	I _T =500mA Gate open		50	mA
I _L	Latching current	I _G -1.2I _{GT}		90	mA
V _{TM}	On-state voltage	I _{TM} = 50A;T _p =380 μs		1.6	V
I _{GT}	Gate-trigger current	V _D = 12 V;I _T = 0.1 A		40	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V;I _T = 0.1 A		1.3	V
I _{RRM}	Repetitive peak reverse current	V _{RRM} =V _{DRM}	T _c =25°C	5	μA
			T _c =125°C	4	mA
I _{DRM}	Repetitive peak off-state current	V _{RRM} =V _{DRM}	T _c =25°C	5	μA
			T _c =125°C	4	mA