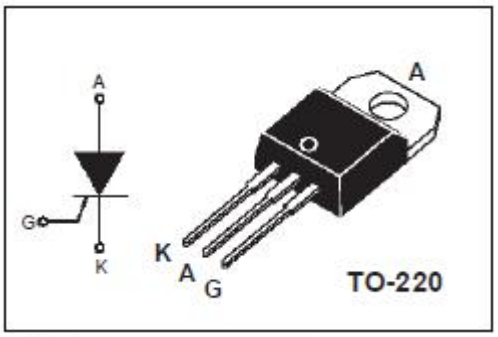
isc Thyristors

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℃)

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	℃
T_{stg}	Storage temperature	-45~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_H	Holding current	IT=500mA Gate open			50	mA
I_L	Latching current	IG-1.2IGT			90	mA
V_{TM}	On-state voltage	I_{TM}= 50A;Tp=380 μ s			1.6	V
I_{GT}	Gate-trigger current	V_D = 12 V;IT = 0.1 A			40	mA
V_{GT}	Gate-trigger voltage	V_D = 12 V;IT = 0.1 A			1.3	V
I_{RRM}	Repetitive peak reverse current	VRRM =VDRM	Tc=25℃		5	μ A
			Tc=125℃		4	mA
I_{DRM}	Repetitive peak off-state current	VRRM =VDRM	Tc=25℃		5	μ A
			Tc=125℃		4	mA