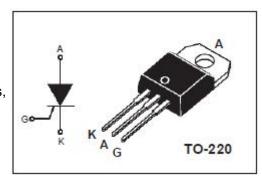


isc Thyristors TXN625

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(Ta=25°C)

SYMBOL	PARAMETER			UNIT	
V _{DRM}	Repetitive peak off-state voltage			V	
V _{RRM}	Repetitive peak reverse voltage			V	
I _{T(RMS)}	RMS on-state current @Tc=83℃			А	
IT (AV)	Average on-state current @Tc=100℃		16	А	
I _{TSM}	Surge per repetitive en etete current	Tp=8.3ms;Tc=25℃	314	A	
	Surge non-repetitive on-state current	Tp=10ms;Tc=25℃	300		
T_j	Operating junction temperature			${\mathbb C}$	
P _{G(AV)}	Average gate power dissipation @Tc=125°C			W	
T _{stg}	Storage temperature			°C	



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		T _j =25℃ T _j =125℃		0.005 4	mA
I _{DRM}	Repetitive peak off-state current	V _{RRM} =V _{DRM}	T _j =25℃ T _j =125℃		0.005 4	mA
V _{TM}	On-state voltage	I _{TM} =50A;T _p =380 μ s			1.6	V
I _{GT}	Gate-trigger current	V _D = 12 V;R _L =33 Ω		4	40	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V;R _L =33 Ω			1.3	V
R _{th(j-c)}	Thermal resistance	Junction to case			2.0	°C/W

Notice:

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