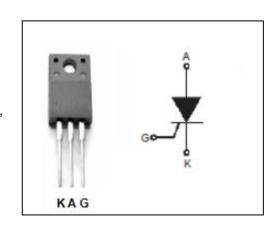


isc Thyristors

TYN16X-600CT

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



and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER			UNIT	
V_{DRM}	Repetitive peak off-state voltage		600	V	
V _{RRM}	Repetitive peak reverse voltage			V	
I _{T(RMS)}	RMS on-state current @Th≤81℃			Α	
I _{T(AV)}	Average on-state current @Th≤81°C		10.2	Α	
P _{G(AV)}	Average gate power dissipation		1	W	
I _{TSM}	Surge non-repetitive on-state current	Tp=8.3ms	198	A	
		Tp=10ms	180		
T_j	Operating junction temperature		150	$^{\circ}\!\mathbb{C}$	
T _{stg}	Storage temperature		-40~150	$^{\circ}$	

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R = 600 V	T _j =150℃		1	mA
I _{DRM}	Repetitive peak off-state current	V _D = 600 V	T _j =150℃		1	mA
V_{TM}	On-state voltage	I _{TM} = 32A;T _j =25℃			1.6	V
I _{GT}	Gate-trigger current	$V_D = 12 \text{ V;} I_T = 0.1 \text{A;} T_j = 25 ^{\circ}\text{C}$			15	mA
V _{GT}	Gate-trigger voltage	$V_D = 12 \text{ V;} I_T = 0.1 \text{A;} T_j = 25 ^{\circ}\text{C}$			1.3	V
		$V_D = 400 \text{ V;} I_T = 0.1 \text{A;} T_j = 125 ^{\circ}\text{C}$		0.2		
$R_{th(j-h)}$	Thermal resistance	Junction to case			2.5	°C/W



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