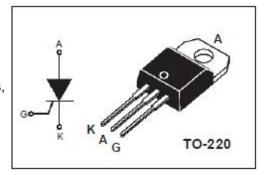


isc Thyristors

TYN616

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	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RMS)}	RMS on-state current	160	Α
I _{TSM}	Surge non-repetitive on-state current	200	A
P _{G(AV)}	Average gate power dissipation	1	W
Tj	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	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}, R_{GK}=220 \Omega$,	T j =25 ℃		5	μ Α
			Tj =125 ℃		1	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , ,R _{GK} = 220 Ω	Tj =25 ℃		5	μ Α
			Tj =125 ℃		1	mA
V _{TM}	On-state voltage	I _{TM} = 48A			1.5	V
I _{GT}	Gate-trigger current	V _D = 12 V;RL=100 Ω		32	mA	
V _{GT}	Gate-trigger voltage	V _D = 12 V;RL=100 Ω			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case		1.25	°C/W	

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