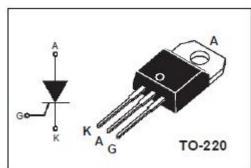


isc Thyristors 16TTS12

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.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(AV)}	Average on-stage current	10	Α
I _{T(RMS)}	RMS on-state current	16	Α
I _{TSM}	Surge non-repetitive on-state current@T _P =10ms	200	Α
P _{G(AV)}	Average gate power dissipation	2	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~125	$^{\circ}$ C

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM},R_{GK}=220\Omega$,	T _j =25℃		500	μ A
			T _j =125℃		10	mA
I _{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$, $R_{GK}=220 \Omega$	T _j =25°C		500	μA
			T _j =125℃		10	mA
V_{TM}	On-state voltage	I _{TM} = 10A			1.4	٧
I _{GT}	Gate-trigger current	$V_D = 6 \text{ V}; I_T = 0.1 \text{ A}$			60	mA
V_{GT}	Gate-trigger voltage	$V_D = 6 \text{ V}; I_T = 0.1 \text{ A}$			2.0	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W

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NOTICE:

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