

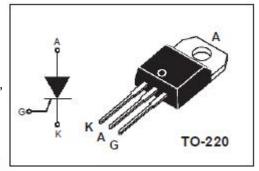
isc Thyristors

INCHANGE SEMICONDUCTOR

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°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
VRRM	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	A
P _{G(AV)}	Average gate power dissipation	2	W
Tj	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~125	°C

ELECTRICAL CHARACTERISTICS (Tc=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	μA
			Tj =125 ℃		10	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , ,R _{GK} = 220 Ω	Tj =25 ℃		500	μA
			Tj =125 ℃		10	mA
V _{TM}	On-state voltage	I _{TM} = 10A			1.4	V
I _{GT}	Gate-trigger current	V _D = 6 V; I _T = 0.1 A			60	mA
V_{GT}	Gate-trigger voltage	V _D = 6 V; I _T = 0.1 A			2.0	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W

isc website: www.iscsemi.com

isc Thyristors

16TTS12



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.