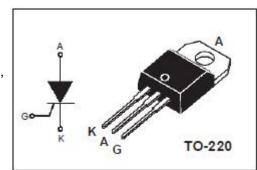


isc Thyristors BT151-600

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	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
I _{T(AV)}	Average on-stage current	7.5	Α
I _{T(RMS)}	RMS on-state current	12	Α
I _{TSM}	Surge non-repetitive on-state current T _P =10ms	100	Α
P _{G(AV)}	Average gate power dissipation over any 20 ms period	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-40~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25℃ 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℃		5	μ A
			Tj=125℃		2	mA
I _{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$, $R_{GK}=220 \Omega$	T _j =25℃		5	μ Α
			T _j =125℃		2	mA
V_{TM}	On-state voltage	I _{TM} = 23A			1.75	V
I _{GT}	Gate-trigger current	V _D = 12 V; I _T = 0.1 A			15	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V; I _T = 0.1 A			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.3	°C/W



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