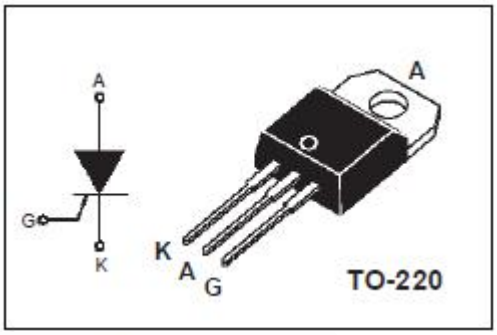
isc Thyristors BT153

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(T_a=25℃)

SYMBOL	PARAMETER	MIN	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	16	A
I_{TSM}	Surge non-repetitive on-state current @f=50Hz, t=20ms	160	A
$P_{G(AV)}$	Average gate power dissipation	1	W
T_j	Operating junction temperature	-40~125	℃
T_{stg}	Storage temperature	-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM},R_{GK}= 220Ω,	T_j=25℃		5	μA
			T_j=125℃		1	mA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM}, ,R_{GK}= 220Ω	T_j=25℃		5	μA
			T_j=125℃		1	mA
V_{TM}	On-state voltage	I_{TM}= 40A			1.5	V
I_{GT}	Gate-trigger current	V_D = 12 V; R_L=100Ω			30	mA
V_{GT}	Gate-trigger voltage	V_D = 12 V; R_L=100Ω			1.5	V
I_H	Holding current	I_T=0.5A			30	mA
$R_{th(j-c)}$	Thermal resistance	Junction to case			1.25	℃/W

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