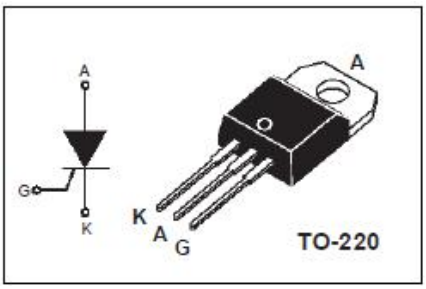
isc Thyristors TS1220-600T



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(T_a=25℃)

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	12	A
$I_{T(RMS)}$	RMS on-state current	8	A
I_{TSM}	Surge non-repetitive on-state current	115	A
$P_{G(AV)}$	Average gate power dissipation over any 20 ms period	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		MAX	UNIT
I_{RRM}	Repetitive peak reverse current	V_{RM}=V_{RRM},R_{GK}= 220Ω ,	T_j=25℃	5	μA
			T_j=125℃	2	mA
I_{DRM}	Repetitive peak off-state current	V_{DM}=V_{DRM}, ,R_{GK}= 220Ω	T_j=25℃	5	μA
			T_j=125℃	2	mA
V_{TM}	On-state voltage	I_{TM}= 24A		1.6	V
I_{GT}	Gate-trigger current	V_D = 12 V; R_L=140Ω		200	μA
V_{GT}	Gate-trigger voltage	V_D = 12 V; R_L=140Ω		0.8	V
$R_{th(j-c)}$	Thermal resistance	Junction to case		1.3	℃/W