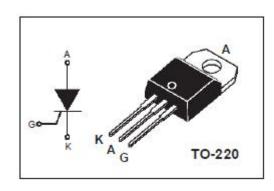


isc Thyristors C122B1

DESCRIPTION

- With TO-220 packaging
- · High heat dissipation and durability
- Thermowatt construction for low thermal
- Glass passivated junctions and center gate fire for greater parameter uniformity and stability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





APPLICATIONS

Switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	200	V
V _{RRM}	Repetitive peak reverse voltage	200	V
I _{T(AV)}	Average on-state current	8	А
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;60HZ;Tc=75℃)	90	А
$P_{G(AV)}$	Average gate power dissipation Tp=8.3ms;Tc=70 ℃	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =25℃		10	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		0.5	IIIA
V_{TM}	On-state voltage	I _{TM} = 16A			1.83	V
I _{GT}	Gate-trigger current	V_D = 12 V; RL=100 Ω @ T_j =25 °C T_j =-40 °C			25 40	mA
V _{GT}	Gate-trigger voltage	V _D = 12 V; RL=100 Ω @T _j =25 ℃ T _j =-40 ℃			1.5 2.0	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.8	°C/W

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