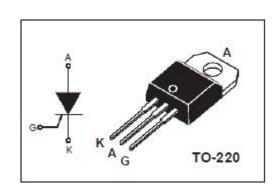


isc Thyristors

CLA30E1200PB

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(Ta=25°C)

SYMBOL	PARAMETER			UNIT
V _{DRM}	Repetitive peak off-state voltage		1200	V
V_{RRM}	Repetitive peak reverse voltage		1200	V
I _{T(AV)}	Average forward current	Tc=150°C	30	А
I _{T(RMS)}	RMS on-state current	Tc=150°C	47	А
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave;50HZ;Tc=125℃)		300	А
$P_{G(AV)}$	Average gate power dissipation	Tp=8.3ms;Tc=70°C	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℃		0.01	mA
I _{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$	T _j =125℃		2.0	IIIA
V_{TM}	On-state voltage	I _{TM} = 30A			1.3	V
I _{GT}	Gate-trigger current	V _D = 6V			30	mA
V_{GT}	Gate-trigger voltage	V _D = 6V			1.3	V
R _{th(j-c)}	Thermal resistance	Junction to case			0.5	°C/W



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