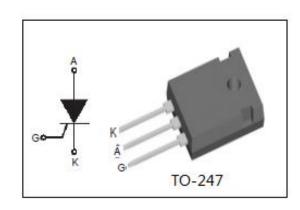


isc Thyristors

CLA30E1200HB

DESCRIPTION

- · With TO-247 packaging
- Long-term stability
- Thyristor for line frequency
- Planar passivated chip
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Switching applications
- Line rectifying 50/60 Hz



SYMBOL	PARAMETER	MIN	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=120°C	30	Α
I _{T(RMS)}	RMS on-state current	47	Α
I _{TSM}	Surge non-repetitive on-state current 50HZ ($1/2$ cycle,sine wave;Tc= 45° C) 60HZ	300 325	A
$P_{G(AV)}$	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~150	$^{\circ}$ C



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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℃ T _j =125℃		0.01	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		2	IIIA
Vтм	On-state voltage	I _{TM} = 30A;tp=380 μ s			1.28	V
I _{GT}	Gate-trigger current	V _D = 6V		28	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

NOTICE:

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