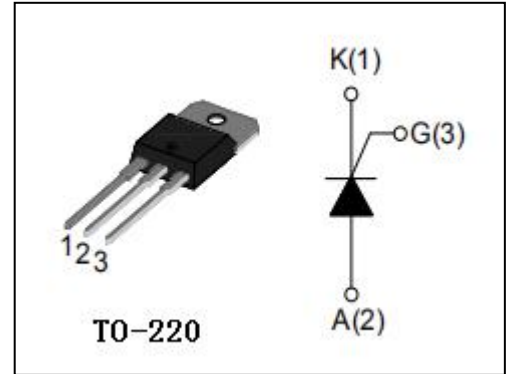


isc Thyristors

CLF20E1200PB

APPLICATIONS

- It is suitable to fit all modes of control found in applications such as overvoltage crowbar protection, motor control circuits, capacitive discharge ignition, voltage regulation circuits etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	1200	V
V_{RRM}	Repetitive peak reverse voltage	1200	V
$I_{\text{T(AV)}}$	Average on-state current	20	A
$I_{\text{T(RMS)}}$	RMS on-state current	31	A
$P_{\text{G(AV)}}$	Average gate power dissipation	0.5	W
T_j	Operating junction temperature	-55~150	$^\circ\text{C}$
T_{stg}	Storage temperature	-55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{\text{RM}}=V_{\text{RRM}}$	$T_j=25^\circ\text{C}$	100	μA
			$T_j=125^\circ\text{C}$	0.5	mA
I_{DRM}	Repetitive peak off-state current	$V_{\text{DM}}=V_{\text{DRM}}$	$T_j=25^\circ\text{C}$	100	μA
			$T_j=125^\circ\text{C}$	0.5	mA
V_{TM}	On-state voltage	$I_{\text{TM}}=20\text{A}$		1.9	V
		$I_{\text{TM}}=40\text{A}$		2.5	V
I_{GT}	Gate-trigger current	$V_{\text{D}}=6\text{V}; I_{\text{T}}=0.1\text{A}$		40	mA
V_{GT}	Gate-trigger voltage	$V_{\text{D}}=6\text{V}; I_{\text{T}}=0.1\text{A}$		1.5	V
$R_{\text{th(j-c)}}$	Thermal resistance	Junction to case		1	$^\circ\text{C/W}$

NOTICE:

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