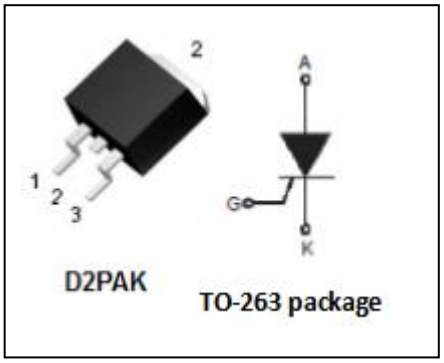
isc Thyristors CLE20E1200PC

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.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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 on-stage current	16	A
I_{RMS}	RMS on-state current	25	A
I_{TSM}	Surge non-repetitive on-state current @T_P=10ms	160	A
$P_{G(AV)}$	Average gate power dissipation ,over any 20 ms period	125	W
T_j	Operating junction temperature	-40~150	℃
T_{stg}	Storage temperature	-40~150	℃

ELECTRICAL CHARACTERISTICS (T_C=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM} /I_{DRM}	Repetitive peak reverse current Repetitive peak off-state current	V_{RM}=V_{RRM},R_{GK}= 220Ω ,	T_j=25℃		0.1	mA
			T_j=125℃		2	mA
V_{TM}	On-state voltage	I_{TM}= 20A			1.54	V
I_{GT}	Gate-trigger current	V_D = 6 V; I_T = 0.1 A			40	mA
V_{GT}	Gate-trigger voltage	V_D = 6 V; I_T = 0.1 A			1.5	V
$R_{th(j-c)}$	Thermal resistance	Junction to case			1.0	℃/W

NOTICE：

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

Download from alldatasheet.com