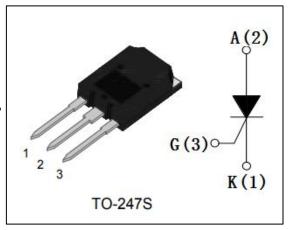


isc Thyristors

CMA80E1600HB

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(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	1600	V
V _{RRM}	Repetitive peak reverse voltage	1600	V
I _{T(AV)}	Average on-stage current	80	Α
I _{T(RMS)}	RMS on-state current	126	Α
I _{TSM}	Surge non-repetitive on-state current T _P =10ms	720	Α
P _{G(AV)}	Average gate power dissipation	620	W
Tj	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°C

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

SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	Tj =25 ℃		50	μA
			T j =125 ℃		3	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T j =25 ℃		50	μA
			Tj =125 ℃		3	mA
V _{TM}	On-state voltage	I _{TM} = 80A			1.47	V
I _{GT}	Gate-trigger current	V _D = 6 V			80	mA
V _{GT}	Gate-trigger voltage	V _D = 6 V			1.4	V
R _{th(j-c)}	Thermal resistance	Junction to case			0.2	℃ /W

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