

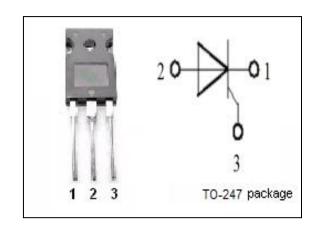
isc Thyristors CLA40E1200HR

DESCRIPTION

- With TO-247 packaging
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- · Battery charging system
- Uninterruptible power supply
- · Variable speed motor drive
- · Industrial welding systems
- · By pass AC switch



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage		V
V _{RRM}	Repetitive peak reverse voltage	1200	V
I _{T(RMS)}	Average on-state current @Tc=95	5°C 63	А
I _{TSM}	Surge non-repetitive on-state current 50Hz 60Hz	650 700	А
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period) @Tc=125	5℃ 0.5	W
T _j	Operating junction temperature	-40~150	C
T _{stg}	Storage temperature	-40~150	$^{\circ}$

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated; V _D =V _{DRM} Rated;	Tj=25℃ Tj=125℃		50	μ Α
I _{DRM}	Repetitive peak off-state current				4	mA
V _{TM}	On-state voltage	I _T =40A;t _P =380 μ s			1.25	V
I _{GT}	Gate-trigger current	V _D =6V			50	mA
V_{GT}	Gate-trigger voltage	V _D =6V			1.5	V
Rth (j-c)	Junction to case	For AC			0.8	°C/W

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