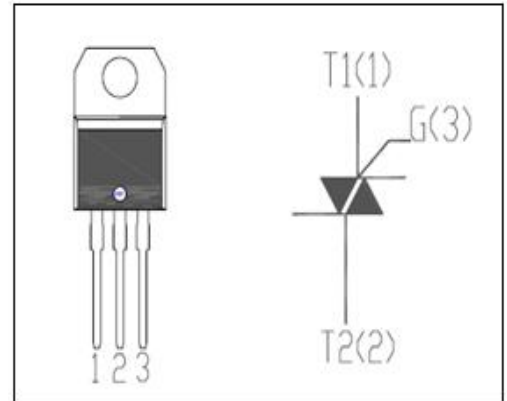


isc Thyristors
ACTT16-800CTN
DESCRIPTION

- With TO-220 packaging
- High operating junction temperature
- Very high commutation performance maximized at each gate sensitivity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High temperature, high power motor control
- Solid state relays; heating and cooking appliances
- Switching applications


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RMS)}	RMS on-state current @T _c =126°C	16	A
I _{TSM}	Surge non-repetitive on-state current	140 150	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°C

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$ Rated; $V_D=V_{DRM}$ Rated;	$T_j=125^\circ\text{C}$		0.01 2	mA
I_{DRM}	Repetitive peak off-state current					
V_{TM}	On-state voltage	$I_T=20\text{A}$			1.5	V
I_{GT}	Gate-trigger current	$V_D=12\text{V}; I_T=0.1\text{A};$		I	35	mA
				II	35	
				III	35	
V_{GT}	Gate-trigger voltage	$V_D=12\text{V}; I_T=0.1\text{A};$			1.0	V

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