



isc Thyristors

SC146D

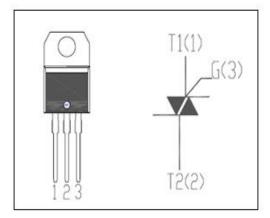
DESCRIPTION

- With TO-220 packaging
- High operating junction temperature
- Very high commutation performancemaximized 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(Ta=25°C)



SYMBOL	PARAMETER			UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(RMS)}	RMS on-state current @Tc=80°C		10	A
I _{TSM}	Surge non-repetitive on-state current	60HZ	120	А
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			w
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			°C



SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25℃		0.01	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=100℃		0.5	mA
V _{TM}	On-state voltage	I _T =14A,t _P =380 μ s			1.65	V
Ідт	Gate-trigger current	V _D =12V;R _L =100 Ω I III III			50	mA
					50	
					50	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =100 Ω			2.5	V

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

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