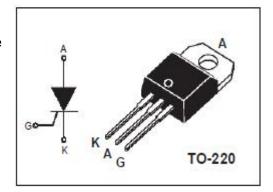


isc Thyristors 2N6506

DESCRIPTION

- Long-term stability
- High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Motor controls, Heating controls
- Power supply crowbar circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER		UNIT
V_{DRM}	Repetitive peak off-state voltage	200	V
V_{RRM}	Repetitive peak reverse voltage	200	V
I _{T(AV)}	Average forward current @Tc=85°C	16	Α
I _{T(RMS)}	RMS on-state current @Tc=85℃	25	А
I _{TSM}	Surge non-repetitive on-state current (1/2 cycle,sine wave,8.3ms)	300	Α
$P_{G(AV)}$	Average gate power dissipation	0.5	W
Tj	Operating junction temperature	-40~125	$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-40~150	$^{\circ}\!\mathbb{C}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _{RM} =V _{RRM}	T _j =25℃		0.01	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM}	T _j =125℃		2	
V_{TM}	On-state voltage	I _{TM} = 50A			1.8	V
I _{GT}	Gate-trigger current	V _D = 12V; R _L =100 Ω			40	mA
V _{GT}	Gate-trigger voltage	$V_D = 12V; R_L = 100 \Omega$			1.5	V
R _{th(j-c)}	Thermal resistance	Junction to case			1.5	°C/W

Notice:

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