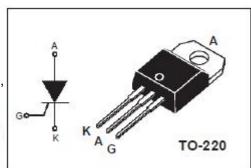


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APPLICATIONS

- 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℃)

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	16	Α
I _{TSM}	Surge non-repetitive on-state current @f=50Hz, t=20ms	160	Α
P _{G(AV)}	Average gate power dissipation	1	W
Tj	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM},R_{GK}=220\Omega$,	T _j =25℃		5	μ A
			T _j =125℃		1	mA
I _{DRM}	Repetitive peak off-state current	V _{DM} =V _{DRM} , ,R _{GK} = 220 Ω	T _j =25℃		5	μ Α
			T _j =125℃		1	mA
V _{TM}	On-state voltage	I _{TM} = 40A			1.5	V
I _{GT}	Gate-trigger current	$V_D = 12 \text{ V}; \text{ R}_L = 100 \Omega$			30	mA
V_{GT}	Gate-trigger voltage	$V_D = 12 \text{ V}; R_L = 100 \Omega$			1.5	V
I _H	Holding current	I _T =0.5A			30	mA
R _{th(j-c)}	Thermal resistance	Junction to case			1.25	°C/W

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