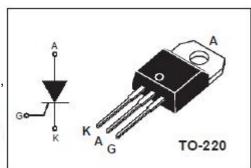


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## **APPLICATIONS**

- 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 <sub>RRM</sub>	Repetitive peak reverse voltage	800	V
I <sub>T(RMS)</sub>	RMS on-state current	16	Α
I <sub>TSM</sub>	Surge non-repetitive on-state current @f=50Hz, t=20ms	160	Α
P <sub>G(AV)</sub>	Average gate power dissipation	1	W
Tj	Operating junction temperature	-40~125	°C
T <sub>stg</sub>	Storage temperature	-40~150	$^{\circ}$

## **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current	$V_{RM}=V_{RRM},R_{GK}=220\Omega$ ,	T <sub>j</sub> =25℃		5	μ <b>A</b>
			T <sub>j</sub> =125℃		1	mA
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>DM</sub> =V <sub>DRM</sub> , ,R <sub>GK</sub> = 220 Ω	T <sub>j</sub> =25℃		5	μ <b>Α</b>
			T <sub>j</sub> =125℃		1	mA
V <sub>TM</sub>	On-state voltage	I <sub>TM</sub> = 40A			1.5	V
I <sub>GT</sub>	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 <sub>H</sub>	Holding current	I <sub>T</sub> =0.5A			30	mA
R <sub>th(j-c)</sub>	Thermal resistance	Junction to case			1.25	°C/W

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