APPLICATIONS
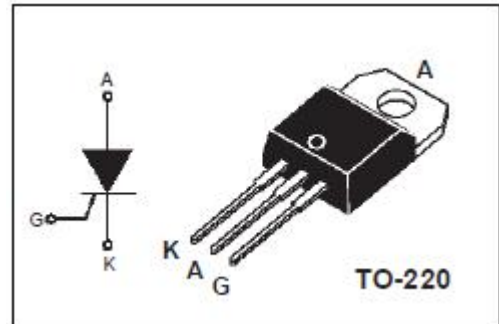
· It is suitable to fit all modes of control found in   applications
  such as overvoltage crowbar protection,motor control circuits
  in power tools and kitchen aids,in-rush current limiting circuits,
. capacitive discharge ignition, voltage regulation circuits etc.

TO-220

ABSOLUTE MAXIMUM RATINGS(T$_a$=25℃)

SYMBOL	PARAMETER			MIN	UNIT
V$_{DRM}$	Repetitive peak off-state voltage			600	V
V$_{RRM}$	Repetitive peak reverse voltage			600	V
I$_{T(RMS)}$	Average on-stage current	@Tc=83℃		8	A
I$_{TSM}$	Surge non-repetitive on-state current	Tj=110℃	T$_P$=10ms	100	A
P$_{G(AV)}$	Average gate power dissipation	over any 20 ms period		0.75	W
T$_j$	Operating junction temperature			-40~110	℃
T$_{stg}$	Storage temperature			-40~150	℃

ELECTRICAL CHARACTERISTICS (T$_C$=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I$_{RRM}$	Repetitive peak reverse current	V$_{RM}$=V$_{RRM}$,R$_{GK}$= 1KΩ	T$_j$=25℃		10	μA
			T$_j$=110℃		500	μA
I$_{DRM}$	Repetitive peak off-state current	V$_{DM}$=V$_{DRM}$, R$_{GK}$= 1KΩ	T$_j$=25℃		10	μA
			T$_j$=110℃		500	μA
V$_{TM}$	On-state voltage	I$_{TM}$= 16A			2.0	V
I$_{GT}$	Gate-trigger current	V$_D$ = 12 V;R$_L$=100Ω			200	mA
V$_{GT}$	Gate-trigger voltage	V$_D$ = 12 V;R$_L$=100Ω			1.5	V
R$_{th(j-c)}$	Thermal resistance	Junction to case			2.2	℃/W

NOTICE：

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