APPLICATIONS
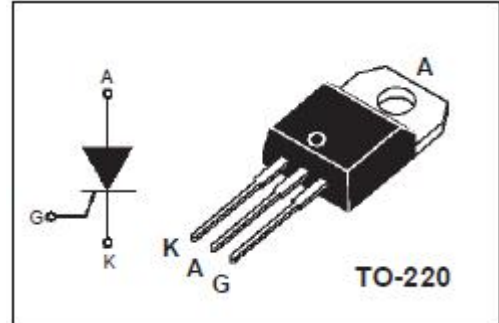
• It is suitable to fit all modes of control found in   applications such as overvoltage crowbar protection,motor control circuits in power tools and kitchen aids,in-rush current limiting circuits,
. capacitive discharge ignition, voltage regulation circuits etc.
• Minimum Lot-to-Lot variations for robust device performance and reliable operation

TO-220

ABSOLUTE MAXIMUM RATINGS(T$_a$=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 @Tc=90℃		10	A
I$_{T(AV)}$	Average on-state current @Tc=100℃		6.4	A
I$_{TSM}$	Surge non-repetitive on-state current	Tp=8.3ms	105	A
		Tp=10ms	100	
T$_j$	Operating junction temperature		-40~125	℃
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$_{RRM}$ Rated	T$_j$=25℃		0.01	mA
			T$_j$=110℃		2	
I$_{DRM}$	Repetitive peak off-state current	V$_{DRM}$ Rated	T$_j$=25℃		0.01	mA
			T$_j$=110℃		2	
V$_{TM}$	On-state voltage	I$_{TM}$= 20A;T$_p$=380μs			1.6	V
I$_{GT}$	Gate-trigger current	V$_D$ = 12 V;R$_L$=33Ω			15	mA
V$_{GT}$	Gate-trigger voltage	V$_D$ = 12 V;R$_L$=33Ω			1.5	V
R$_{th(j-c)}$	Thermal resistance	Junction to case			2.5	℃/W

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