

FEATURES

- With TO-220AB insulated package
- Suitable for general purpose AC switching.

Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits.

Or for phase control operation in light dimmers motor speed controller etc.

- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

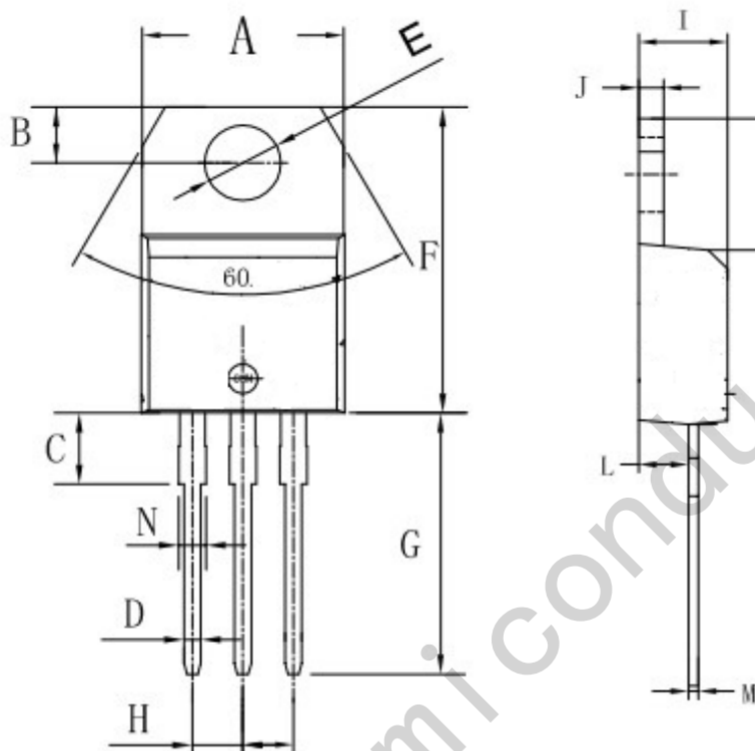
SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	800	V
V _{RRM}	Repetitive peak off-state voltage	800	V
I _{T(RMS)}	RMS on-state current (full sine wave) T _c =105℃	10	A
I _{TSM}	Non-repetitive peak on-state current t _p =20ms	100	A
T _j	Operating junction temperature	125	℃
T _{stg}	Storage temperature	-40~150	℃
R _{th(j-c)}	Thermal resistance, junction to case	2.4	℃/W
R _{th(j-a)}	Thermal resistance, junction to ambient	60	℃/W

ELECTRICAL CHARACTERISTICS (T_c=25℃ unless otherwise specified)

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I _{RRM}	Repetitive peak reverse current		V _R =V _{RRM} , V _R =V _{RRM} , T _j =110℃	0.005 1	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} , V _D =V _{DRM} , T _j =110℃	0.005 1	mA
I _{GT}	Gate trigger current	I- II-III	V _D =12V; R _L = 30 Ω	50	mA
I _H	Holding current		I _{GT} = 0.1A, Gate Open	50	mA
V _{GT}	Gate trigger voltage	I- II-III	V _D =12V; R _L = 30 Ω	1.3	V
V _{TM}	On-state voltage		I _T = 14A; t _p = 380 μ s	1.55	V

Package Information

TO-220



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	9.8	10.4	0.385	0.409
B	2.65	3.1	0.104	0.122
C	2.8	4.2	0.110	0.165
D	0.7	0.92	0.027	0.036
E	3.75	3.95	0.147	0.155
F	14.8	16.1	0.582	0.633
G	13.05	13.6	0.513	0.535
H	2.4	2.7	0.094	0.106
I	4.38	4.61	0.172	0.181
J	1.15	1.36	0.045	0.053
K	5.85	6.82	0.230	0.268
L	2.35	2.75	0.092	0.108
M	0.35	0.65	0.013	0.025
N	1.18	1.42	0.046	0.055