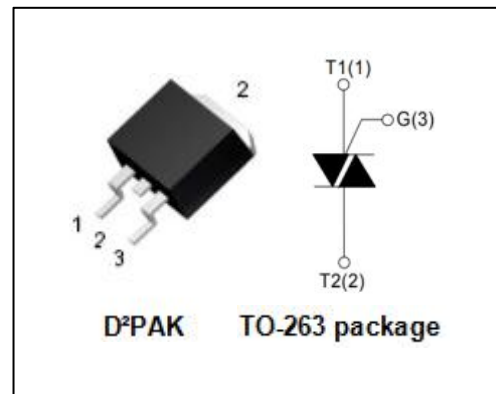


FEATURES

- With TO-220AB non insulated package
- Suitable for general purpose where high surge current capability is required.
- Application such as phase control and static switching on inductive or resistive load.


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave) T _j =90°C	16	A
I _{TSM}	Non-repetitive peak on-state current t _p =8.3ms	160	A
T _j	Operating junction temperature	-40~150	°C
T _{stg}	Storage temperature	-40~150	°C
P _{G(AV)}	Average gate power dissipation(T _j =125°C)	1	W
R _{th(j-c)}	Thermal resistance, junction to case	1.15	°C/W
R _{th(j-a)}	Thermal resistance, junction to ambient	45	°C/W

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} , V _R =V _{RRM} , T _j =125°C		0.005 4.1	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} , V _D =V _{DRM} , T _j =125°C		0.005 4.1	mA
I _{GT}	Gate trigger current	V _D =12V; R _L = 33 Ω		35	mA
			I	35	
			II	35	
	III		35		
V _{GT}	Gate trigger voltage all quadrant	V _D =12V; R _L = 33 Ω		1.0	V
V _{TM}	On-state voltage	I _T = 23A; t _p = 380 μs		1.5	V
dv/dt	Critical Rate of Rise of Off-State Voltage	V _D =67% V _{DRM} gate open (T _j =125°C)	1000		V/us

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