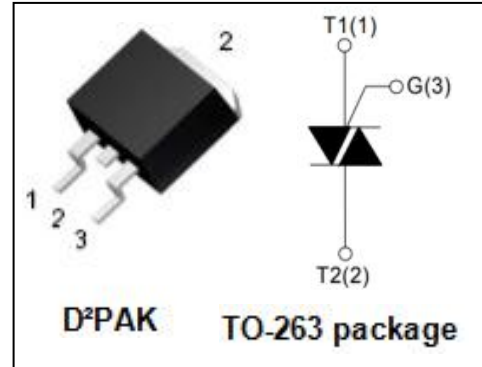


DESCRIPTION

- High blocking voltage capability
- Surface-mountable package
- Low holding current for low current loads and lowest EMI at commutation.
- Triggering in all four quadrants
- Very sensitive gate
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


FEATURES

- General purpose motor control
- General purpose switching

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
I _{T(RMS)}	RMS on-state current (full sine wave; T _{mb} ≤ 107°C)	4	A
I _{TSM}	Non-repetitive peak on-state current(T _j =25°C; T _p =20ms)	25	A
I ² t	I ² t for fusing t _p =10ms; sine-wave pulse	3.1	A ² S
dI/dt	T _j =125°C	50	A/us
I _{GM}	Peak gate current	2	A
P _{G(AV)}	Average gate power dissipation	0.5	W
T _j	Operating junction temperature	125	°C
T _{stg}	Storage temperature	-40~150	°C

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
I _{GT}	Gate trigger current	I	10	mA
		II	10	
		III	10	
		IV	25	
V _{GT}	Gate trigger voltage	V _D =12V; I _T = 0.1A	1.5	V
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} , V _D =V _{DRM} , T _J =125°C	5 500	uA
V _{TM}	On-state voltage	I _T = 5A	1.7	V
I _H	Holding current	I _{GT} = 0.5A, V _D = 12V	15	mA

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