APPLICATIONS
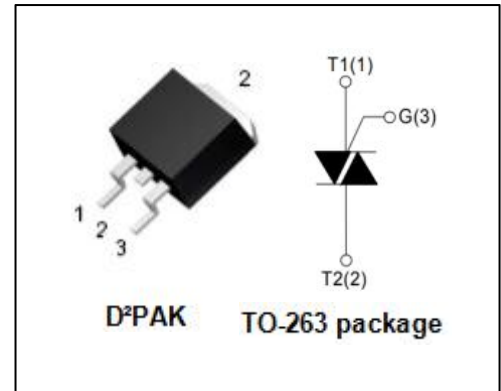
· With TO-D²PAK package

· Low thermal resistance with clip bonding

· Be suitable for general purpose AC switching,they can be used as an ON/OFF function in applications.

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

D²PAK   TO-263 package

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 full sine wave; T$_{mb}$≤101℃	10	A
I$_{TSM}$	Surge non-repetitive on-state current t=20ms t=16.7ms	100 105	A
P$_{G(AV)}$	Average gate power dissipation (over any 20 ms period)	1	W
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$_R$=V$_{RRM}$	T$_j$=25℃		0.005	mA
			T$_j$=125℃		1	
I$_{DRM}$	Repetitive peak off-state current	V$_D$=V$_{DRM}$	T$_j$=25℃		0.005	mA
			T$_j$=125℃		1	
V$_{TM}$	On-state voltage	I$_{TM}$= 14A			1.55	V
I$_{GT}$	Gate-trigger current Quadrant (I - II - III)	V$_D$ = 12 V;I$_T$=0.1A		2	50	mA
V$_{GT}$	Gate-trigger voltage Quadrant (I - II - III)	V$_D$ = 12 V;I$_T$=0.1A			1.3	V