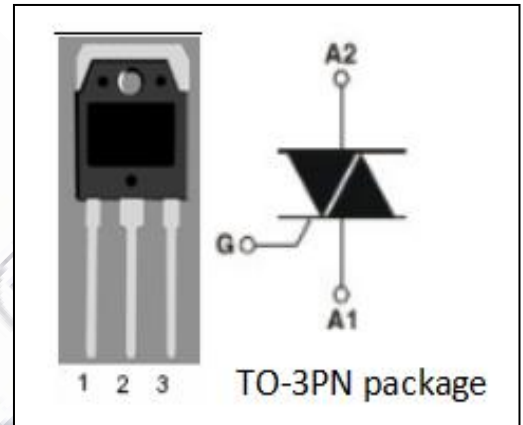


isc Thyristors
BTA41-600B
DESCRIPTION

- With TO-3PN packaging
- Can be operated in 4 quadrants
- Advanced technology to provide customers with high commutation performances
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching applications
- Phase control
- Static switching on inductive or resistive load


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	MAX	UNIT
V _{DRM}	Repetitive peak off-state voltage	600	V
V _{RRM}	Repetitive peak reverse voltage	600	V
I _{T(RSM)}	Average on-state current T _c =75°C	40	A
I _{TSM}	Surge non-repetitive on-state current	315 300	A
		50HZ 60HZ	
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	1	W
T _j	Operating junction temperature	-40~125	°C
T _{stg}	Storage temperature	-40~150	°C

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} Rated; T _j =25°C		0.01	mA
I _{DRM}	Repetitive peak off-state current		V _D =V _{DRM} Rated; T _j =125°C	6	
V _{TM}	On-state voltage	I _T =60A; t _p =380 μs		1.8	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =33Ω;	I	50	mA
			II	50	
			III	50	
			IV	100	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =33Ω;		1.5	V
R _{th(j-c)}	Junction to case			1.2	°C/W