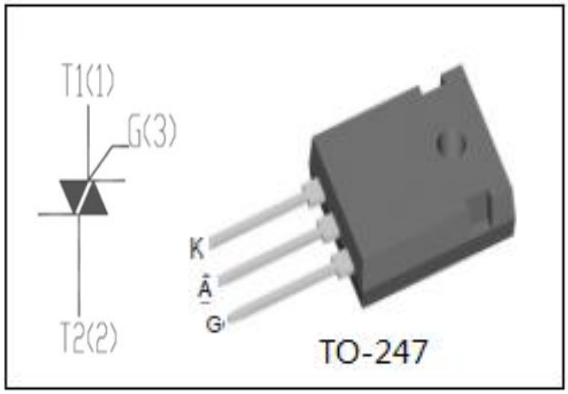
isc Thyristors JST41S-1200BW

DESCRIPTION

- With TO-247 packaging
- Can be operated in 3 quadrants
- Advanced technology to provide customers with high commutation performances
- Minimum Lot-to-Lot variations for robust device performar and reliable operation



APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER		MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage		1200	V
V_{RRM}	Repetitive peak reverse voltage		1200	V
$I_{T(RSM)}$	Average on-state current	Tc=75℃	40	A
I_{TSM}	Surge non-repetitive on-state current	50HZ	400	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} Rated;	Tj=25℃		0.01	mA
I_{DRM}	Repetitive peak off-state current	V_D=V_{DRM} Rated;	Tj=125℃		5	
V_{TM}	On-state voltage	I_T=60A； t_P=380 μ s			1.55	V
I_{GT}	Gate-trigger current	V_D =12V;R_L=33Ω;	I		50	mA
			II		50	
			III		50	
V_{GT}	Gate-trigger voltage	V_D =12V;R_L=33Ω;			1.3	V
Rth $_{(j-c)}$	Junction to case				0.8	℃/W

isc Thyristors **JST41S-1200BW**

Notice：
ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.
ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.
ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.