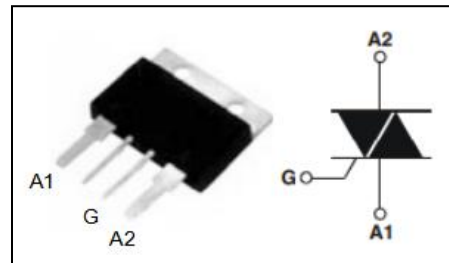


**isc Thyristors**
**BTA80-800B**
**DESCRIPTION**

- With TO-P4 packaging
- 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**( $T_a=25^{\circ}\text{C}$ )

SYMBOL	PARAMETER	MAX	UNIT
$V_{\text{DRM}}$	Repetitive peak off-state voltage	800	V
$V_{\text{RRM}}$	Repetitive peak reverse voltage	800	V
$I_{\text{T(RSM)}}$	Average on-state current	80	A
$I_{\text{TSM}}$	Surge non-repetitive on-state current	800	A
$T_j$	Operating junction temperature	-40~125	$^{\circ}\text{C}$
$T_{\text{stg}}$	Storage temperature	-40~150	$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS** ( $T_c=25^{\circ}\text{C}$  unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$I_{\text{RRM}}$	Repetitive peak reverse current	$V_R=V_{\text{RRM}}$ $V_D=V_{\text{DRM}}$		1.5	mA
$I_{\text{DRM}}$	Repetitive peak off-state current				
$V_{\text{TM}}$	On-state voltage	$I_T=120\text{A}$		1.5	V
$I_{\text{GT}}$	Gate-trigger current	$V_D=12\text{V}; R_L=10\Omega;$	I	50	mA
			II	50	
			III	50	
			IV	80	
$V_{\text{GT}}$	Gate-trigger voltage	$V_D=12\text{V}; R_L=10\Omega;$		1.3	V
$I_{\text{H}}$	Holding current			80	mA

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