

**BTA24 / BTB24
Triac Series**

TO-220

Absolute maximum ratings ($T_{amb}=25^{\circ}C$)

Parameter	Symbol	Value	Unit	Test condition	
peak repetitive off-stage voltage	BTA/BTB-600	V_{DRM}, V_{RRM}	600	V	$I_D=0.1mA, I_R=0.1mA$
peak repetitive off-stage voltage	BTA/BTB-800	V_{DRM}, V_{RRM}	800	V	$I_D=0.1mA, I_R=0.1mA$
on-state RMS current	$I_T(RMS)$	25	A	all conduction angles	
NON repetitive surge peak on-state current	I_{TSM}	250	A	$T_p=10ms, T_j=25^{\circ}C$	
critical rate of rise on-state current	di/dt	50	A/ μs	$I_{TM}=20A, I_G=50mA$	
peak gate current	I_{GM}	4	A	$t_p=20\mu s$	
average gate power dissipation	$P_G(AV)$	1	W		
storage temperature range	T_{stg}	-40 to +150	$^{\circ}C$		
operating junction temperature range	T_j	125	$^{\circ}C$		

Electrical characteristics ($T_j=25^{\circ}C$) unless otherwise specified

Parameter	Symbol	Value	Unit	Test condition
gate trigger current	I_{GT}	≤ 50	mA	T2+G+ $V_D=12V, I_T=0.1A$
		≤ 50	mA	T2+G- $V_D=12V, I_T=0.1A$
		≤ 50	mA	T2-G- $V_D=12V, I_T=0.1A$
		≤ 100	mA	T2-G+ $V_D=12V, I_T=0.1A$
gate trigger voltage	V_{GT}	≤ 1.3	V	$V_D=12V, I_T=0.1A$
hold current	I_H	≤ 50	mA	$V_D=12V, I_T=0.1A$
critical rate of rise off-state voltage	dv/dt	≥ 200	V/ μs	$V_D=67\%V_{DRM}$
on-state voltage	V_{TM}	≤ 1.55	V	$I_T=35A$
off-state leakage current	I_{DRM}	≤ 3.0	mA	$V_D=V_{DRM}, V_R=V_{RRM}; T_j=125^{\circ}C$
thermal resistance	$R_{th(j-a)}$	60	$^{\circ}C/W$	
	$R_{th(j-c)}$	1.7		BTA
	$R_{th(j-c)}$	0.8		BTB

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