Product Summary

Symbol	Value	Unit	
I _{T(RMS)}	25	Α	
$V_{DRM}V_{RRM}$	600 / 800	٧	
V_{TM}	1.55	V	

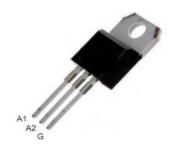
Feature

With high ability to withstand the shock loading of large current, With high commutation performances, 3 quadrants products especially recommended for use on inductive load.

Application

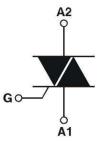
Washing machine, vacuums, massager, solid state relay, AC Motor speed regulation and so on.

Package

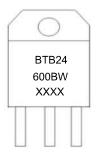


TO-220B

Circuit diagram



Marking





Absolute maximum ratings (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value		Unit
Repetitive peak off-state voltage	V_{DRM}	600 / 800		V
Repetitive peak reverse voltage	V _{RRM}	600 / 800		V
RMS on-state current	I _{T(RMS)}	25		А
Non repetitive surge peak on-state current (full cycle, F=50Hz)	I _{TSM}	250		А
I ² t value for fusing (tp=10ms)	l ² t	340		A ² s
Critical rate of rise of on-state current (I _G =2×I _{GT})	dI⊤/dt	I - II -III	50	A/µs
Peak gate current	I _{GM}	4		Α
Average gate power dissipation	P _{G(AV)}	1		W
Junction Temperature	TJ	-40 ~ +125		$^{\circ}$
Storage Temperature	T _{STG}	-40 ~ +150		${\mathbb C}$

Electrical characteristics (T_A=25 °C, unless otherwise noted)

Davamatar	Councile all	Test Condition		Value		11			
Parameter	Symbol			CW	BW	Unit			
Gate trigger current	I _{GT}	$V_D = 12V R_L = 33\Omega$	I - II - III	≤35	≤50	mA			
Gate trigger voltage	V_{GT}	T _j =25℃	25°C		1.3	V			
Gate non-trigger voltage	V_{GD}	V _D =V _{DRM} T _j =125℃		≥0.2		V			
latching current	I∟	I _G =1.2I _{GT}	I -III	≤80	≤100	- mA			
			II	≤80	≤100				
Holding current	lμ	I _T =100mA		≤50	≤75	mA			
Critical-rate of rise	dV _D /dt	$V_D=2/3V_{DRM}$		≥500	≥1000	V/µs			
of commutation voltage	u v D/ut	Gate Open T _j =125℃	_j =125℃						
STATIC CHARACTERISTICS									
Forward "on" voltage	V_{TM}	I _{TM} =35A tp=380µs		≤1.55		V			
Repetitive Peak Off-State Current	I _{DRM}	\	T _j =25℃	≤10		μΑ			
Repetitive Peak Reverse Current	I _{RRM}	$V_D = V_{DRM} V_R = V_{RRM}$	T _j =125℃	≤3		mA			
THERMAL RESISTANCES									
Thermal resistance	Rth(j-c)	Junction to case(AC)		1.1		°C/W			
	Rth(j-a)	Junction to ambient		45		°C/W			



Typical Characteristics

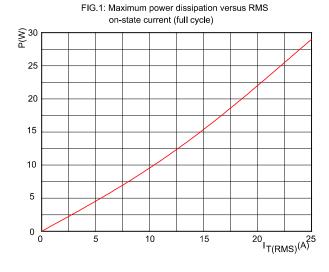


FIG.2: RMS on-state current versus case temperature (full cycle)

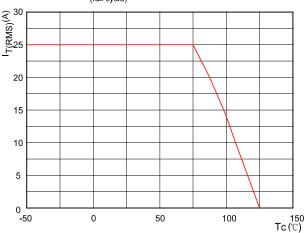
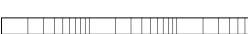


FIG.3: Surge peak on-state current versus number of cycles



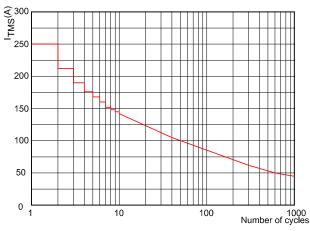


FIG.4: On-state characteristics (maximum values)

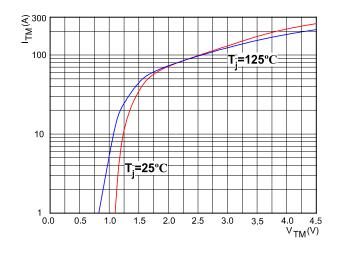


FIG.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp < 10ms

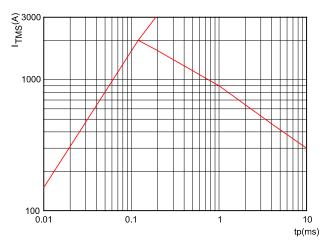
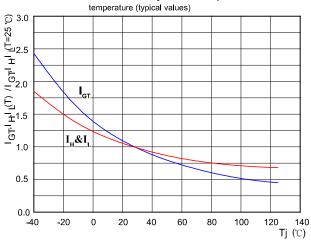
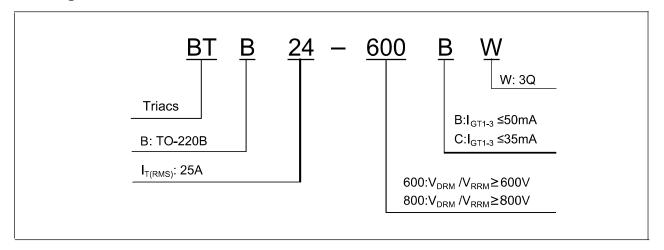


FIG.6: Relative variations of gate trigger current, holding current and latching current versus junction

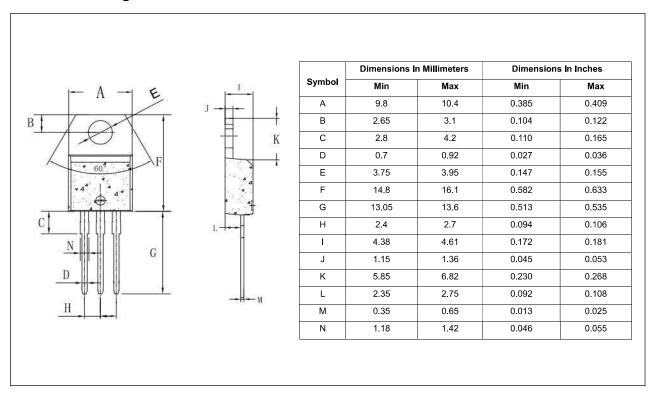




Ordering Information



TO-220B Package Information



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Triacs category:

Click to view products by FUXINSEMI manufacturer:

Other Similar products are found below:

BT137-600-0Q OT415Q 2N6075A NTE5688 BTA2008W-800D,135 D31410 BT136-600,127 BT137B-800,118 BTA140-600,127
BTA208-800B,127 MAC97A6,116 BTA420-800BT,127 BTA201W-800E,115 BTA212B-800B,118 BTA41-800BRG TMA164P-L
TMA166P-L TMA54S-L BT137-600E,127 BTA140-800,127 BTA30-600CW3G BTB16-600CW3G TMA84S-L Z0109MN,135 T825T-6I
T1635T-6I T1220T-6I NTE5638 ACST1235-8FP BT134-600D,127 BT134-600G,127 BT136X-600E,127 BT139X-800,127 BTA204X800C,127 BTA208X-1000C0,127 BTA216-600E,127 BTA316X-600E/DG,12 BTA316X-800C,127 BT134-600D,127 BT134-600E,127
BT137X-600D,127 BT139X-600E,127 BTA08-600BW3G BTA201-800ER,126 BTA208X-1000B,127 BTA316X-800E,127 NTE56008
NTE56017 NTE56018 NTE56059