FEATURES

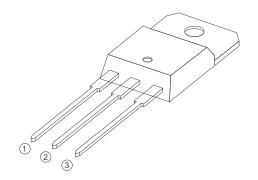
3 4 Quadrants 8A Triacs

> IT(RMS): 25A > VGT: 1.5V > VDRM VRRM:800Vand1000V

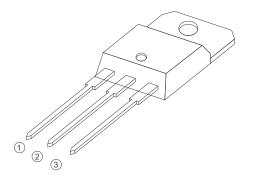
APPLICATIONS

G(3)

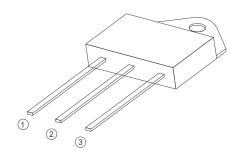
Washing machine, vacuums, massager, solid state relay, AC Motor speed regulat



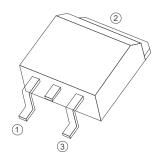
TO-220A Insulated



TO-220B Non-Insulated



TO-3P Insulated



TO-263

Absolute Maximum Ratings (Tj=25°C unless otherwise specifed)

Symbol	Parameter	Conditions	Ratings	Unit
VDRM	Denotitive Deak Off State Voltage	BTA26-800	800	V
VRRM	Repetitive Peak Off-State Voltage	BTA26-1000	1000	V
IT(RMS)	R.M.S On-State Current	Tc=110°C	25	Α
ITSM	Surge On-State Current	tp=16.7ms/tp=10ms	280/300	Α
I²t	I ² t for fusing	Tp=10ms	520	A²s
PG(AV)	Average Gate Power Dissipation	Tj=125°C	1	W
IGM	Peak Gate Current	Tj=125°C	6	Α
Tj	Operating Junction Temperature		~40~125	°C
TSTG	Storage Temperature		~40~150	°C

Electrical Characteristics (Tj=25°C unless otherwise specifed)

Cymala al	Parameter		Took Conditions		l lm:4		
Symbol			Test Conditions	CW	BW	В	- Unit
IDRM Repetitive Peak Off-State		!	Tj=25°C	5			uA
IDKIVI	Current		Tj=125°C	3			mA
IDDM	Repetitive Peak Reverse Current		Tj=25°C	5			uA
IIXIXIVI			Tj=125°C	3			mA
VTM	Forward "on" voltage		IT=35A tp=380us	1.55			V
VGT	Gate trigger voltage		VD=12V ,RL=30Ω	≤1.5			V
di/dt	Critical rate of rise of onstate current	1,11,111	F=120Hz,Tj=125°C	≥50			A/us
		IV	IG=2xlGT,tr≤100ns	≥10			A/us
IGT	Gate trigger current	1,11,111	-VD=12V RL=30Ω	≤35	≤50	≤50	mA
		IV	VD=12V RL=30Ω	1	1	≤100	mA
IH	Holding current		IT=0.2A	≤60	≤80	≤80	mA
VDG	Gate non-trigger voltage ALL		VD=VDRM TJ=125°C	≥0.2		V	
dv/dt	Critical-rate of rise of commutation voltage		TJ=125°C VD=2/3VDRM Gate	≥400 ≥1000 ≥500		V/us	
Rth(j-c)	Thermal resistance		Junction to case	1.1			°C/W
Rth(j-a)	Thermal resistance		Junction to ambient	50			°C/W

FIG1

Maximum power dissipation versus RMS on-state current

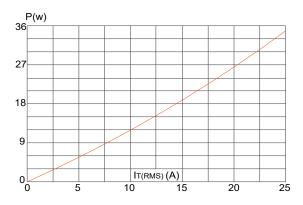


FIG3

Surge peak on-state current versus number of cycles

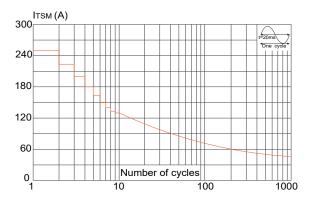


FIG5

Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp<20ms, and corresponging value of l^2t (dl/dt < 100A/ μ s)

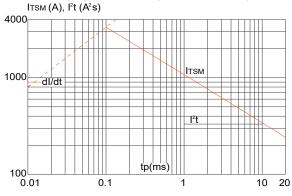


FIG2

RMS on-state current versus case temperature

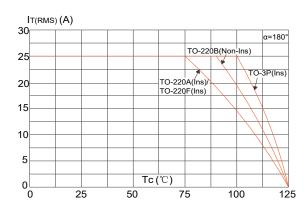


FIG4

On-state characteristics (maximum values)

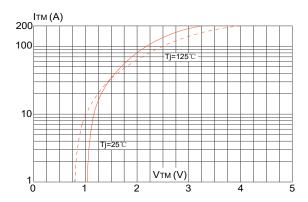
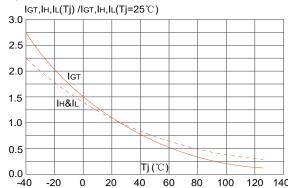
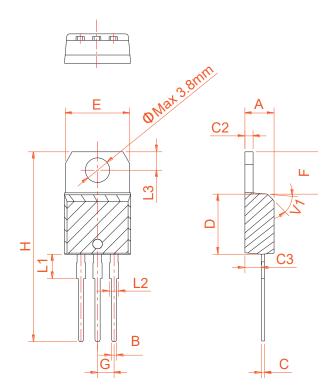


FIG6

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



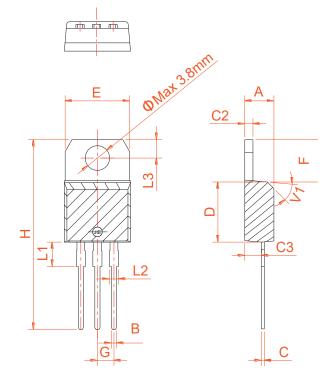
PACKAGE MECHANICAL DATA



	Dimensions							
Ref.	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	4.40		4.60	0.173		0.181		
В	0.61		0.88	0.024		0.035		
С	0.46		0.70	0.018		0.028		
C2	1.21		1.32	0.048		0.052		
C3	2.40		2.72	0.094		0.107		
D	8.60		9.70	0.339		0.382		
E	9.80		10.4	0.386		0.409		
F	6.55		6.95	0.258		0.274		
G		2.54			0.1			
Н	28.0		29.8	1.102		1.173		
L1		3.75			0.148			
L2	1.14		1.70	0.045		0.067		
L3	2.65		2.95	0.104		0.116		
V1		45°			45°			

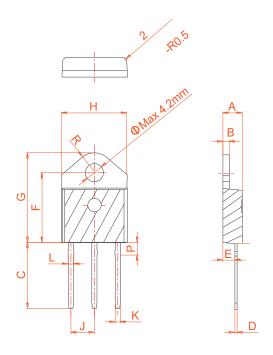
TO-220A Ins

	Dimensions							
Ref.	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	4.40		4.60	0.173		0.181		
В	0.61		0.88	0.024		0.035		
С	0.46		0.70	0.018		0.028		
C2	1.21		1.32	0.048		0.052		
C3	2.40		2.72	0.094		0.107		
D	8.60		9.70	0.339		0.382		
E	9.60		10.4	0.378		0.409		
F	6.20		6.60	0.244		0.260		
G		2.54			0.1			
Н	28.0		29.8	1.102		1.173		
L1		3.75			0.148			
L2	1.14		1.70	0.045		0.067		
L3	2.65		2.95	0.104		0.116		
V1		45°			45°			



TO-220B Non-Ins

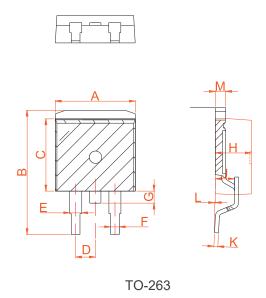
PACKAGE MECHANICAL DATA



TO-3P Ins

	Dimensions							
Ref.	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	4.40		4.60	0.173		0.181		
В	1.45		1.55	0.057		0.061		
С	14.35		15.60	0.565		0.614		
D	0.50		0.70	0.020		0.028		
E	2.70		2.90	0.106		0.114		
F	15.80		16.50	0.622		0.650		
G	20.40		21.10	0.803		0.831		
Н	15.10		15.50	0.594		0.610		
J	5.40		5.65	0.213		0.222		
K	1.10		1.40	0.043		0.055		
L	1.35		1.50	0.053		0.059		
Р	2.80		3.00	0.110		0.118		
R		4.35			0.171			

	Dimensions							
Ref.	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	9.90		10.20	0.390		0.402		
В	14.70		15.80	0.579		0.622		
С	9.4		9.6	0.37		0.378		
D		2.54			0.100			
E	1.20		1.40	0.047		0.055		
F	0.75		0.85	0.029		0.033		
G			1.75			0.069		
Н	4.40		4.70	0.173		0.185		
J	2.30		2.70	0.091		0.106		
K	0.38		0.55	0.015		0.022		
L	0	0.10	0.25	0	0.004	0.010		
М	1.25		1.35	0.049		0.053		



Contact Information

TANI website: http://www.tanisemi.com Email:tani@tanisemi.com For additional information, please contact your local Sales Representative.



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