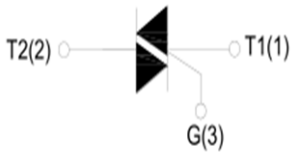
东莞市环昕微实业有限公司

Features
- IT(RMS): 25A
- VDRM VRRM:
  600V/800V /1000V
  1200V/1600V



BTA26. PDF

TO-3P

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value
IT(RMS)	RMS on-state current	25A
VDRM	Repetitive peak off-state voltage	600V/800V/1000V/1200V/1600V
VRRM	Repetitive peak reverse voltage	600V/800V/1000V/1200V/1600V
Tj	Operating junction temperature range	～40℃~125℃
Tstg	Storage junction temperature range	～40℃~150℃
VDSM	Non repetitive surge peak Off-state voltage	VDRM+100V
VRSM	Non repetitive peak reverse voltage	VRRM+100V
ITSM	Non repetitive surge peak on-state current (full cycle, F=50Hz)	250A
I²t	I²t value for fusing (tp=10ms)	340A²S
dI/dt	Critical rate of rise of on-state current(I G =2×I GT)	50A/μs
IGM	Peak gate current	4A
PG(AV)	Average gate power dissipation	1W
PGM	Peak gate power	10W

ELECTRICAL CHARACTERISTICS (Tj =25℃ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value			
			BTA26/600V-800V		BTA26/1200V/1600V	
IGT	VD=12V RL=33Ω	I-II-III	＜50mA	＜35mA	＜50mA	＜35mA
		IV	/		/	
VGT		ALL	＜1.3V		＜1.5V	
VGD	VD=VDRM Tj=125℃ RL=3.3KΩ	ALL	＞0.2V			
IL	IG=1.2IGT	I-III	＜80mA	＜70mA	＜90mA	＜70mA
		II	＜100mA	＜80mA	＜100mA	＜80mA
		I-III-IV	/		/	
		II			/	
IH	IT=100mA		＜75mA	＜50mA	＜80mA	＜60mA
dV/dt	VD=2/3VDRM Gate Open Tj=125℃		＞1000V/μs	＞500V/μs	＞1500V/μs	＞1000V/μs
VTM	ITM=35A tp=380μs (Tj =25℃)		＜1.5V			
IDRM	VD=VDRMVR=VRRM	Tj =25℃	＜5μA			
IRRM		Tj =125℃	＜3mA			
Rth(j-c)	junction to case(AC)	TO-3P	0.67℃/W			

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FIG.1 Maximum power dissipation versus RMSon-state current

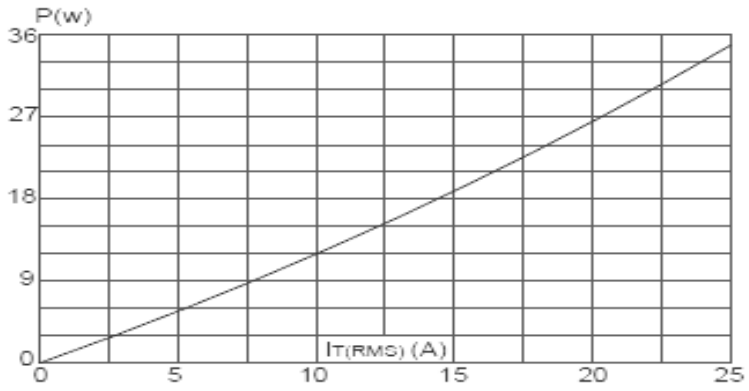


FIG.2: RMS on-state current versus case temperature

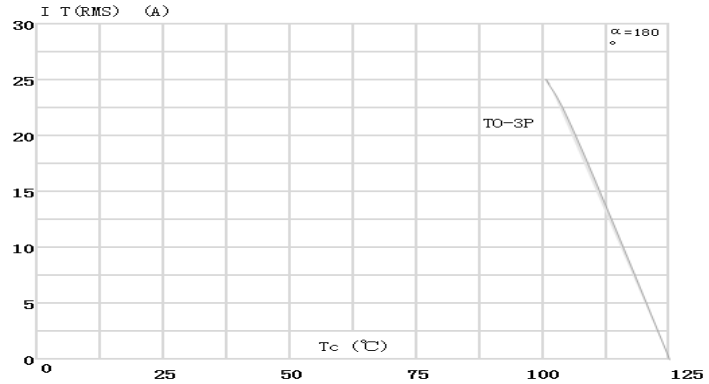


FIG.3: Surge peak on-state current versusnumber of cycles

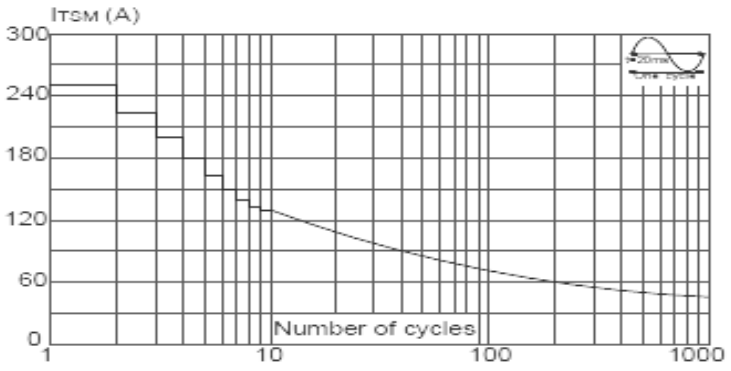


FIG.4: On-state characteristics (maximumvalues)

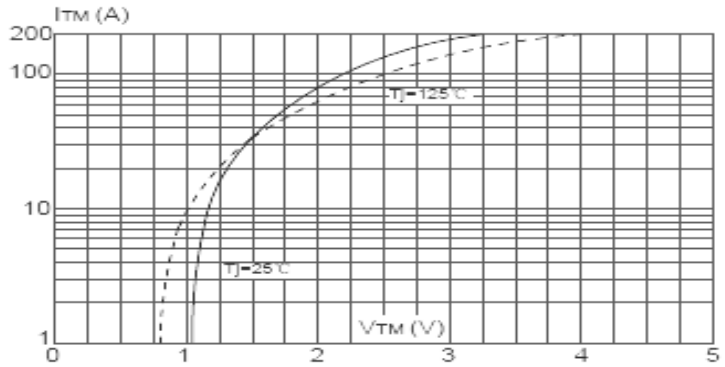


FIG.5: Non-repetitive surge peak on-state currentfor a sinusoidal pulse with width tp<20ms, andcorresponging value of I²t (dI/dt < 50A/μs)

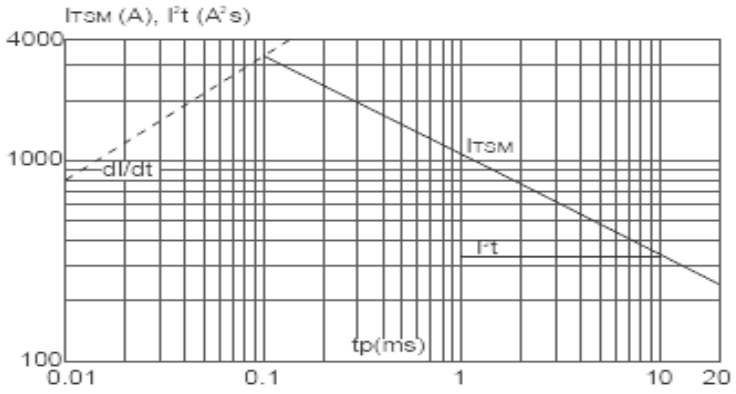
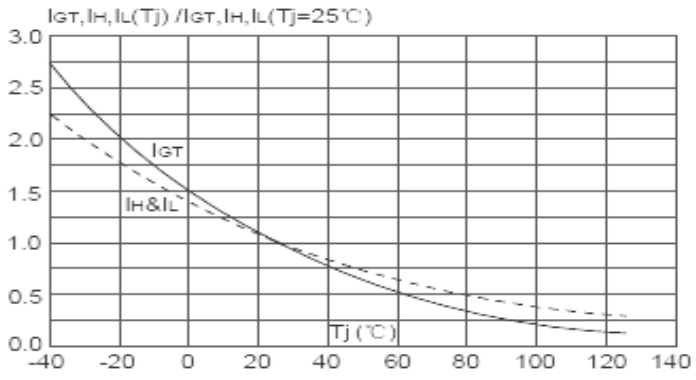
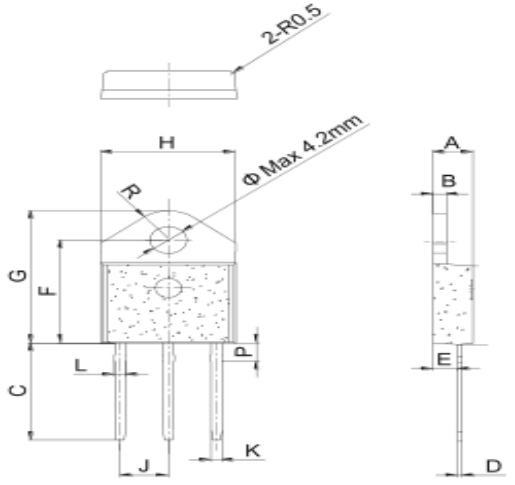


FIG.6: Relative variations of gate trigger current, holding current and latching current versusjunction temperature



PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	1.45		1.55	0.057		0.061
C	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
H	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
P	2.80		3.00	0.110		0.118
R		4.35			0.171	



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