BTA26　　25A TRIACs
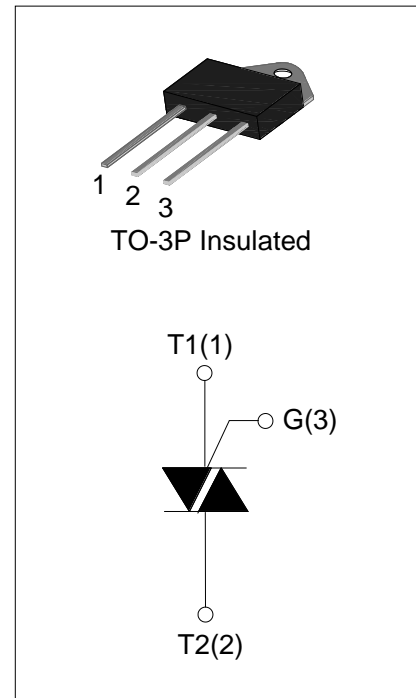
DESCRIPTION:

BTA26　provide high dv/dt rate with strong resistance to electromagnetic interface. With high commutation performances, 3 quadrants products especially recommended for use on inductive load.

TO-3P Insulated

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	25	A
V_{DRM}/V_{RRM}	600 and 800 and 1200	V

ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
Storage junction temperature range		T_{stg}	-40-150	℃
Operating junction temperature range		T_j	-40-125	℃
Repetitive peak off-state voltage (T_j=25℃)		V_{DRM}	600/800/1200	V
Repetitive peak reverse voltage (T_j=25℃)		V_{RRM}	600/800/1200	V
Non repetitive surge peak Off-state voltage		V_{DSM}	V_{DRM} +100	V
Non repetitive peak reverse voltage		V_{RSM}	V_{RRM} +100	V
RMS on-state current	TO-3P(Ins) (T_C=100℃)	$I_{T(RMS)}$	25	A
Non repetitive surge peak on-state current (full cycle, F=50Hz)		I_{TSM}	250	A
I^2t value for fusing (tp=10ms)		I^2t	340	A^2s
Critical rate of rise of on-state current (I_G=2×I_{GT})		dI/dt	50	A/μs
Peak gate current		I_{GM}	4	A
Average gate power dissipation		$P_{G(AV)}$	1	W

SIKA CO.,LIMITED

Peak gate power	P_{GM}	10	W

ELECTRICAL CHARACTERISTICS (T_j=25℃ unless otherwise specified)

V_{DRM}/V_{RRM}: 600/800V

Symbol	Test Condition	Quadrant		BTA26 -600/800V		Unit
				BW	CW	
I_{GT}	V_D=12V R_L=33Ω	Ⅰ-Ⅱ-Ⅲ	MAX	50	35	mA
V_{GT}		Ⅰ-Ⅱ-Ⅲ	MAX	1.3		V
V_{GD}	V_D=V_{DRM} T_j=125℃ R_L=3.3KΩ	Ⅰ-Ⅱ-Ⅲ	MIN	0.2		V
I_L	I_G=1.2I_{GT}	Ⅰ-Ⅲ	MAX	80	70	mA
		Ⅱ		100	80	
I_H	I_T=100mA		MAX	75	50	mA
dV/dt	V_D=2/3V_{DRM} Gate Open T_j=125℃		MIN	1000	500	V/μs

V_{DRM}/V_{RRM}: 1200V

Symbol	Test Condition	Quadrant		BTA26 -1200V		Unit
				BW	CW	
I_{GT}	V_D=12V R_L=33Ω	Ⅰ-Ⅱ-Ⅲ	MAX	50	35	mA
V_{GT}		Ⅰ-Ⅱ-Ⅲ	MAX	1.5		V
V_{GD}	V_D=V_{DRM} T_j=125℃ R_L=3.3KΩ	Ⅰ-Ⅱ-Ⅲ	MIN	0.2		V
I_L	I_G=1.2I_{GT}	Ⅰ-Ⅲ	MAX	90	70	mA
		Ⅱ		100	80	
I_H	I_T=100mA		MAX	80	60	mA
dV/dt	V_D=2/3V_{DRM} Gate Open T_j=125℃		MIN	1500	1000	V/μs

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX)	Unit
V_{TM}	I_{TM}=35A tp=380μs	T_j=25℃	1.5	V
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25℃	5	μA
I_{RRM}		T_j=125℃	3	mA

THERMAL RESISTANCES

Symbol	Parameter		Value	Unit
$R_{th(j-c)}$	junction to case(AC)	TO-3P(Ins)	0.8	℃/W

ORDERING INFORMATION

BTA　　26　-　600　BW

TRIAC SERIES

$I_{T(RMS)}$:25A

BW:I_{GT3}≤50mA
CW:I_{GT3}≤35mA

600:V_{DRM}/V_{RRM}≥600V
800:V_{DRM}/V_{RRM}≥800V
1200:V_{DRM}/V_{RRM}≥1200V

PACKAGE MECHANICAL DATA

2-R0.5

Φ Max 4.2mm

TO-3P Ins
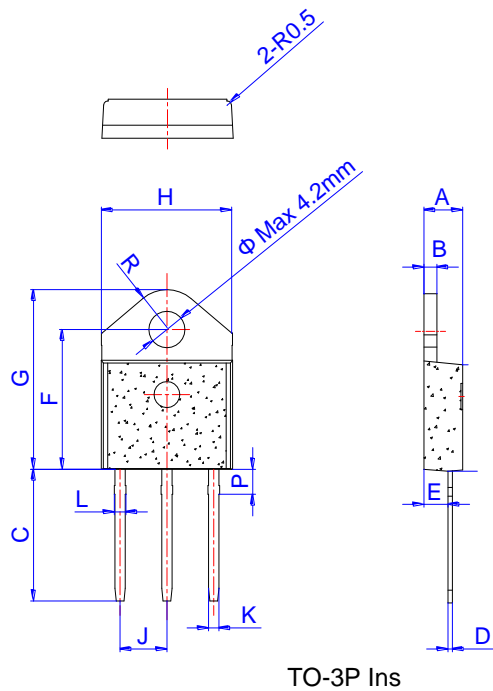
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	1.45		1.55	0.057		0.061
C	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
E	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
H	15.10		15.50	0.594		0.610
J	5.40		5.65	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	

SIKA CO.,LIMITED

FIG.1: Maximum power dissipation versus RMS on-state current

P(w)

IT(RMS) (A)
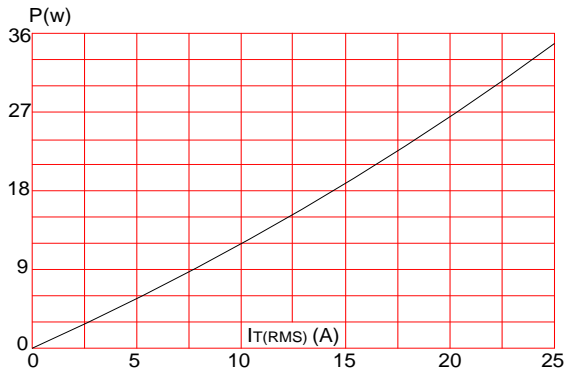
FIG.2: RMS on-state current versus case temperature

IT(RMS) (A)

α=180°

TO-3P(Ins)

Tc (℃)
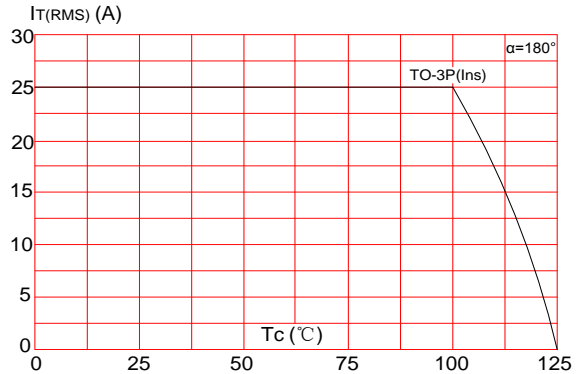
FIG.3: Surge peak on-state current versus number of cycles

ITSM (A)

t=20ms
One cycle

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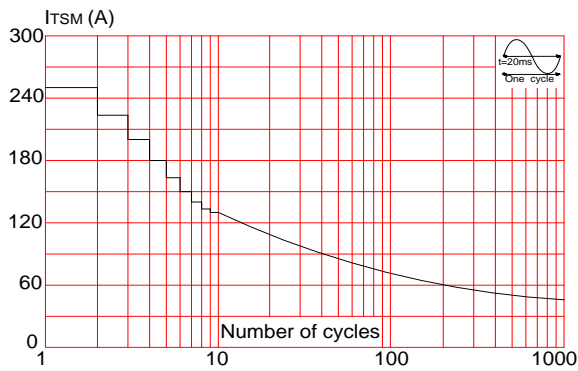
FIG.4: On-state characteristics (maximum values)

ITM (A)

Tj=125℃

Tj=25℃

VTM (V)
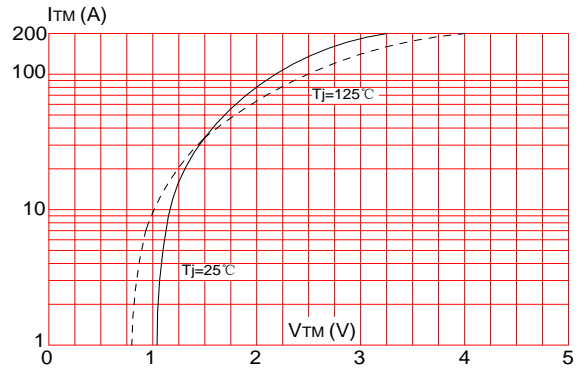
FIG.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp<10ms, and corresponging value of I^2t (dI/dt < 50A/μs)

ITSM (A), I^2t (A²s)

dI/dt

ITSM

I^2t

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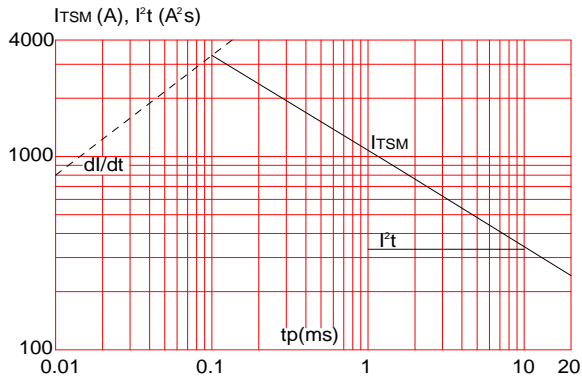
FIG.6: Relative variations of gate trigger current, holding current and latching current versus junction temperature

IGT,IH,IL(Tj) /IGT,IH,IL(Tj=25℃)

IGT

IH&IL

Tj (℃)
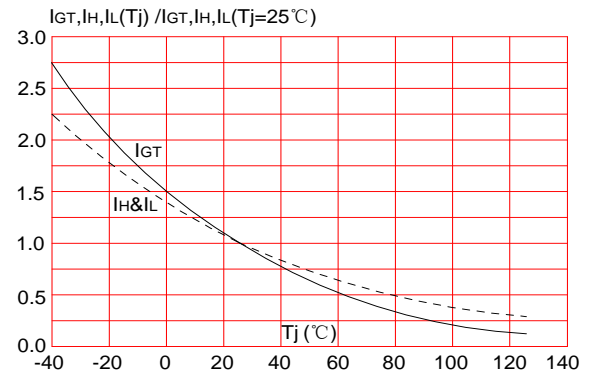
X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Triacs *category:*

Click to view products by Haoruijia *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 BTA26-800CWRG 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 BTA204X-800C,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