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TO-92
Triac in a TO-92 Plastic Package.

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Low power gate trigger circuits.

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Suitable for general purpose AC switching .Such as static relays,heating regulation,induction motor starting circuits,motor speed controllers,etc.

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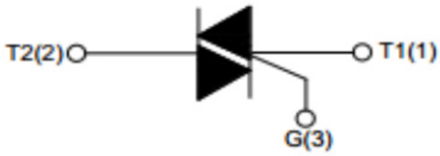

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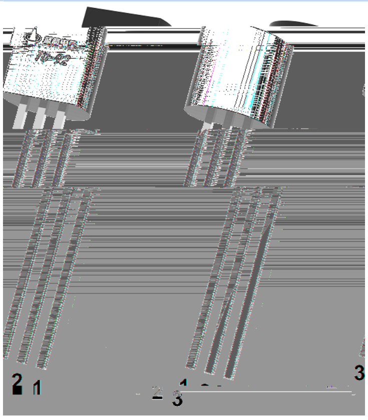

PIN1 Main Terminal 2 PIN 2 Gate PIN 3 Main Terminal 1

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See Marking Instructions.

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Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages(T_j=25)	V_{DRM}/V_{RRM}	600	V
RMS on-state current(T_C=110)	$I_{T(RMS)}$	1	A
Non repetitive surge peak on-state current(full cycle, T_j=25°C)	$I_{TSM(t=20ms)}$	16	A
Critical rate of rise of on-state current (I_G =2I_{GT}, f=100Hz T_j=125)	dI/dt I-II-III	50	A/μs
	dI/dt IV	30	
Peak gate current(t_p =20μs T_j=125)	I_{GM}	2.0	A
Average gate power dissipation(T_j=125)	$P_{G(AV)}$	0.5	W
Operating junction temperature range	T_j	-40 125	
Storage junction temperature range	T_{stg}	-40 150	
Junction to ambient(AC)	$R_{th(j-a)}$	150	/W
Junction to case for(AC)	$R_{th(j-c)}$	60	

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Symbol	Test Conditions		Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω		I-II-III	Max.	5	mA
			IV		10	
V_{GT}	V_D=12V R_L=33Ω		I-II-III-IV	Max.	1.3	V
V_{GD}	V_D=V_{DRM} R_L=3.3KΩ T_j=125		I-II-III-IV	Min.	0.2	V
I_L	I_G=1.2I_{GT}		I-III-IV	Max.	5	mA
			II		20	
I_H	I_T=50mA			Max.	7	mA
dV/dt	V_D=67% V_{DRM} Gate Open	Tj=125		Min.	120	V/μs
V_{TM}	I_{TM} =1.4A t_p=380μs	Tj=25		Max.	1.45	V
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	Tj=25			5	μA
I_{RRM}		Tj=125			0.2	mA

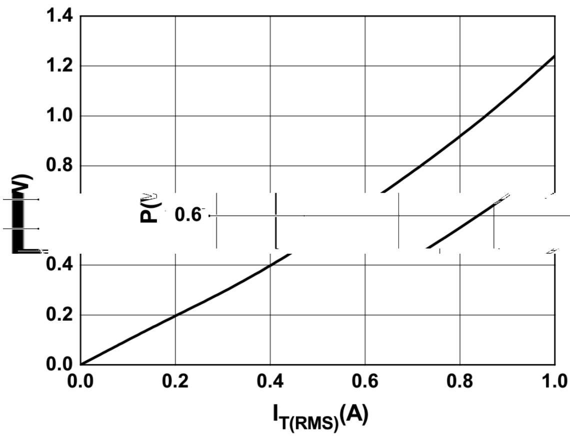


FIG.1 Maximum power dissipation versus RMS on-state current

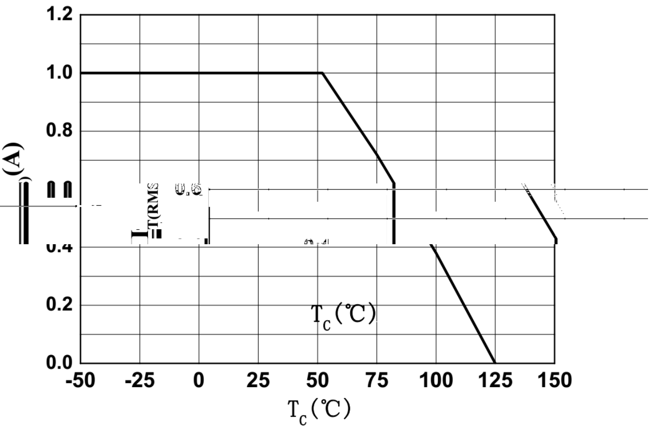
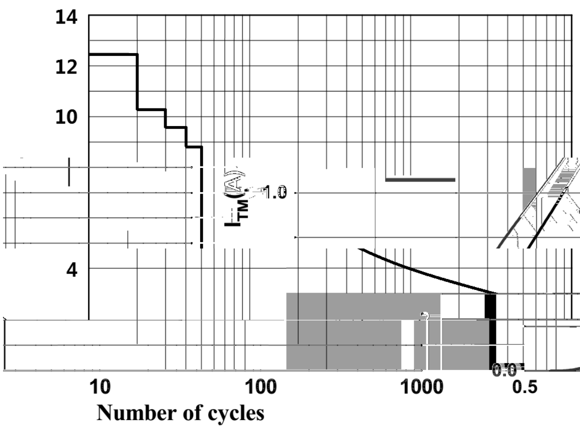


FIG.2: RMS on-state current versus case temperature



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

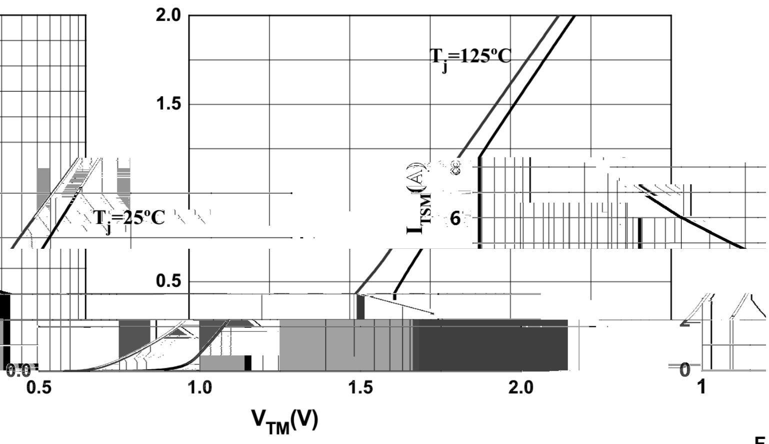
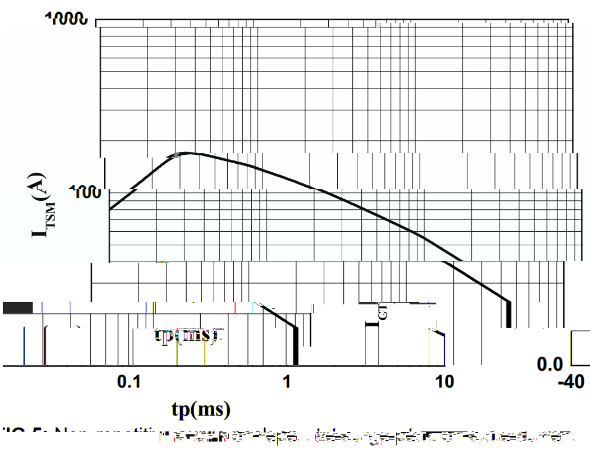
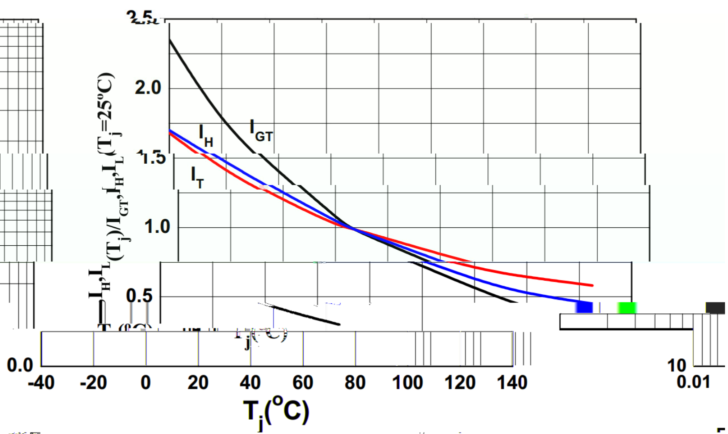


FIG.4: On-state characteristics



… (Ⅰ-Ⅱ-Ⅲ: dI/dt<50A/μs; Ⅳ: dI/dt<30A/μs)



… versus junction temperature

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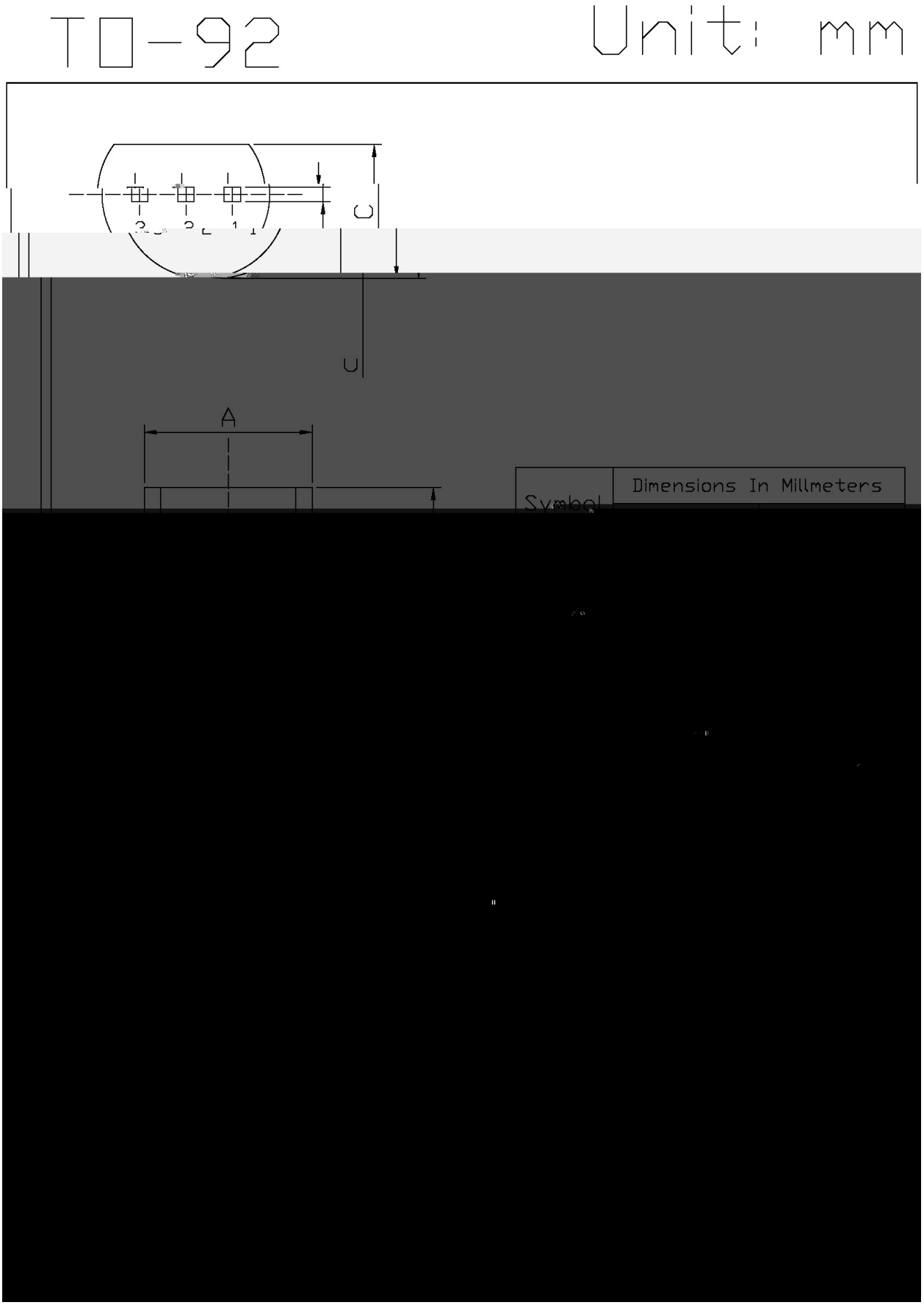

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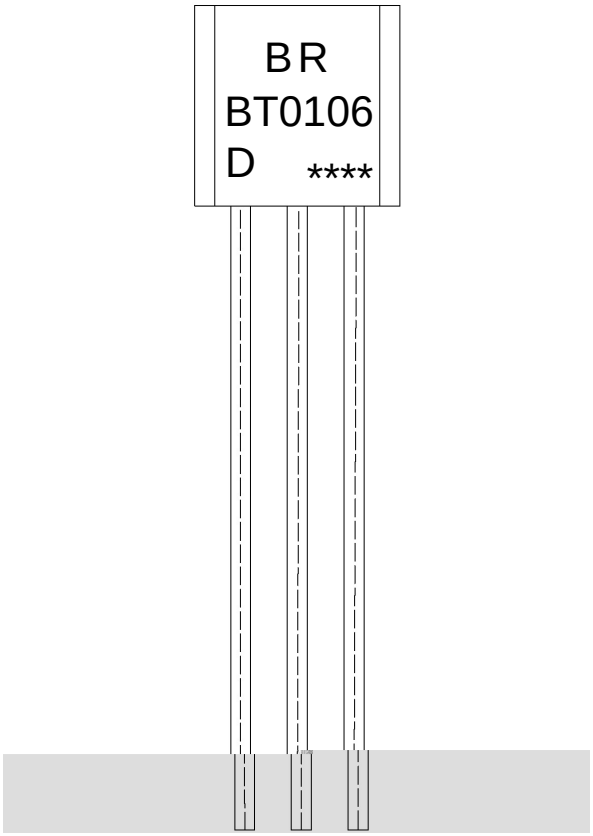

BR

BT0106

D: I_{GT}

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Note:

BR:	Company Code
BT0106:	Product Type Code
D:	I_{GT} Level Code
****:	Lot No. Code, code change with Lot No

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Note:

1 25 150 60 90sec; 1.Preheating:25~150 , Time:60~90sec.

2 255±5 5±0.5sec; 2.Peak Temp.:255±5 , Duration:5±0.5sec.

3 2 10 /sec. 3. Cooling Speed: 2~10 /sec.

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270±5 10±1 sec. Temp.:270±5 Time:10±1 sec

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/ BULK

Package Type	Units					Dimension (unit mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195

/ AMMO

Package Type	Units				Dimension (unit mm3)
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box Units/Outer Box /	