

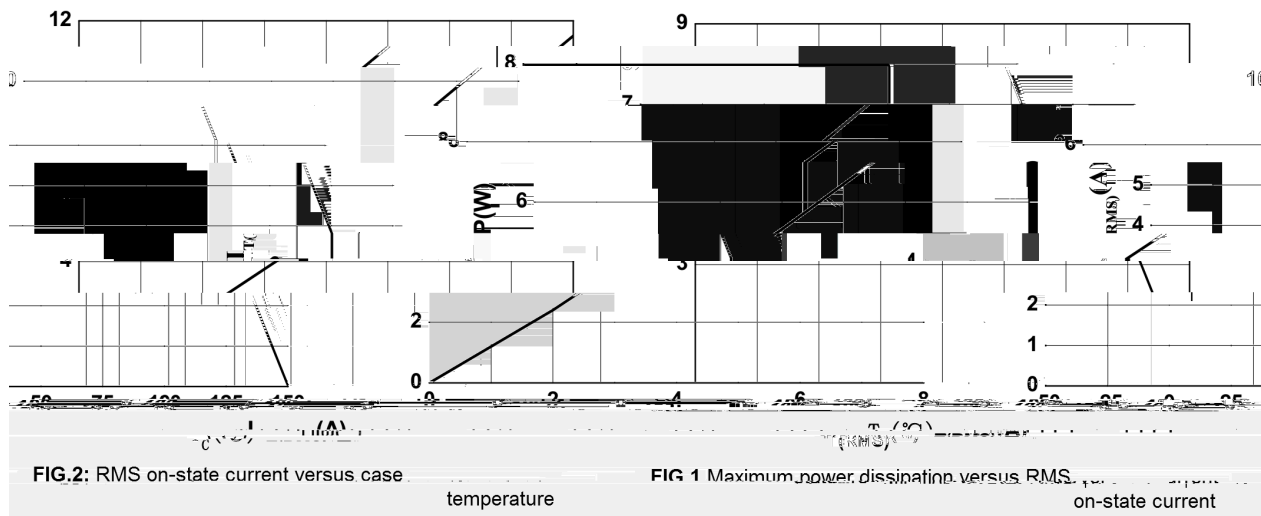
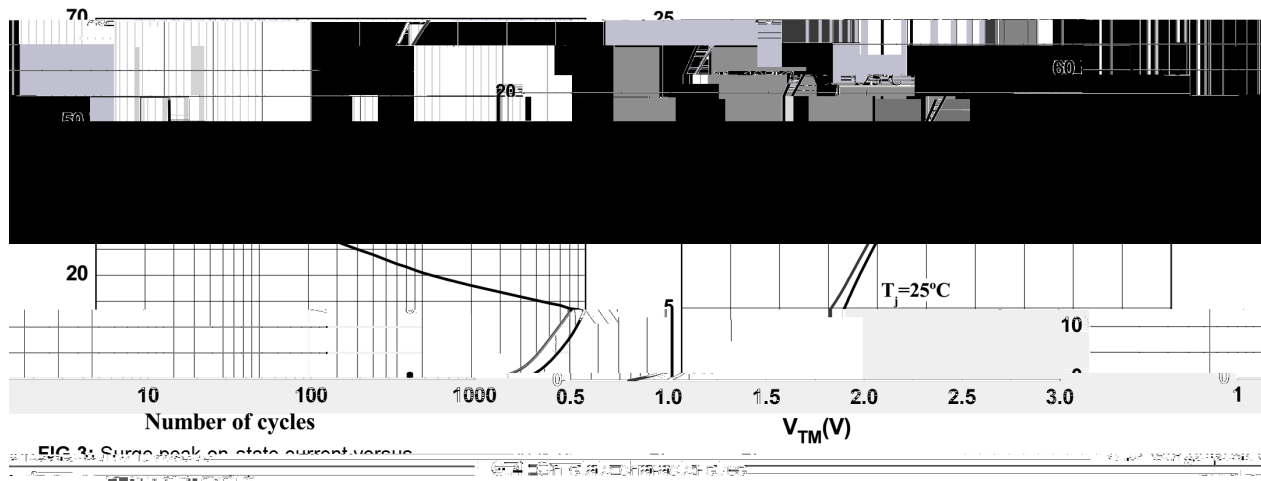
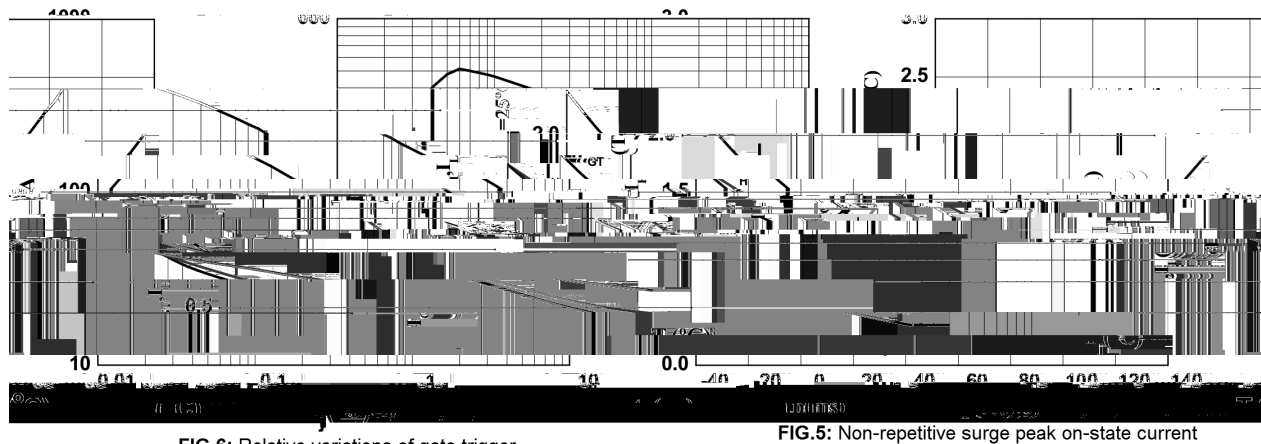
Rev.A Sep.-2024

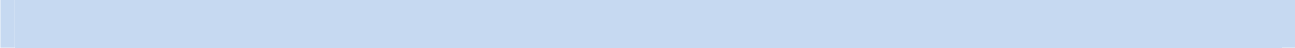
TO-252

Triac in a TO-252 Plastic Package.

Medium current triac, Low on state voltage drop,High reliability andw on stTwa.1(o)1 resi on st

Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages($T_J=25^\circ\text{C}$)	$V_{\text{DRM}}/V_{\text{RRM}}$	800	V
RMS on-state current($T_C=110^\circ\text{C}$)	$I_{\text{T(RMS)}}$	8	A
Non repetitive surge peak on-state current(full cycle, $T_J=25^\circ\text{C}$)	$I_{\text{TSM}(t=20\text{ms})}$	65	A
I^2t value for fusing($T_J=25^\circ\text{C}$)	$I^2t_{(tp=10\text{ms})}$	21	A^2s
Critical rate of rise of on-state current ($I_G=2I_{\text{GT}}$, $f=120\text{Hz}$ $T_J=150^\circ\text{C}$)	$\frac{dI}{dt}$ I-II-III	80	$\text{A}/\mu\text{s}$
	$\frac{dI}{dt}$ IV	40	
Peak gate current($t_p=20\mu\text{s}$ $T_J=150^\circ\text{C}$)	I_{GM}	2.0	A
Average gate power dissipation($T_J=150^\circ\text{C}$)	$P_{\text{G(AV)}}$	0.5	W
Operating junction temperature range	T_J	-40 ~ 125	
Storage junction temperature range	T_{stg}	-40 ~ 150	
Junction to ambient(AC)	$R_{\text{th(j-a)}}$	130	/W
Junction to case for(AC)	$R_{\text{th(j-c)}}$	5	





BR

BT0808

E I_{GT}

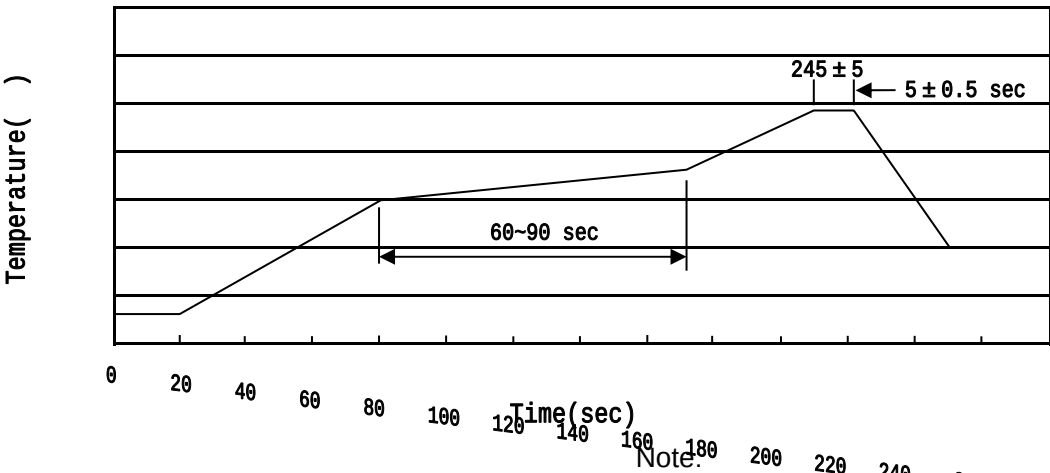
Note:

Company Code

BT0808: Product Type Code

E: I0085.9974 0 0 6 213.78 191.7203 Tm-.0075 Tc(GT)Tj10.4958 0 0 10.5 222.12 192.20
E ****

Temperature Profile for IR Reflow Soldering(Pb-Free)



- | | | | | | |
|---|---------|-----|-------------|--|--|
| 1 | 150 | 180 | 60 | 90sec; | 1. Preheating: 150~180 °C, Time: 60~90sec. |
| 2 | 245 ± 5 | | 5 ± 0.5sec; | 2. Peak Temp.: 245 ± 5 °C, Duration: 5 ± 0.5sec. | |
| 3 | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 °C/sec. | |

260 ± 5 10 ± 1 sec. Temp.: 260 ± 5 Time: 10 ± 1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13 × 16	360 × 360 × 50	380 × 335 × 366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-251/252	75	48	3,600	5	18,000	526 × 20.5 × 5.25	555 × 164 × 50	575 × 290 × 180