

/ Descriptions

TO-220F

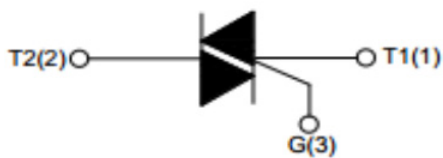
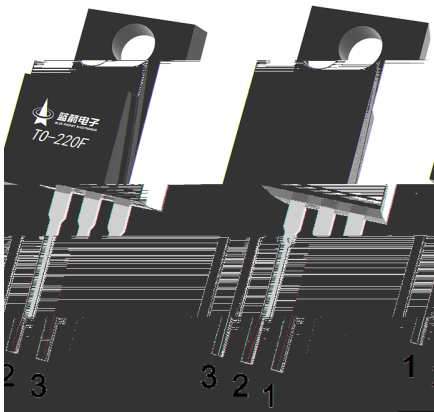
Triac in a TO-220F Plastic Package.

/ Features

Medium current triac, Low on state voltage drop,High reliability and stability,Low thermal resistance.

/ Applications

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

/ Equivalent Circuit**/ Pinning**

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

/ Marking

See Marking Instructions.

/ Electrical Characteristic Curve

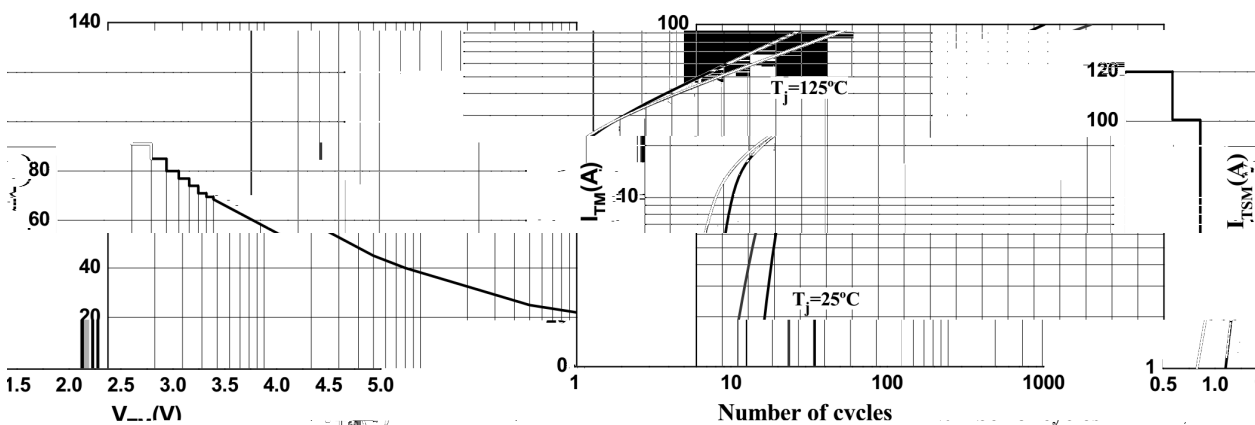
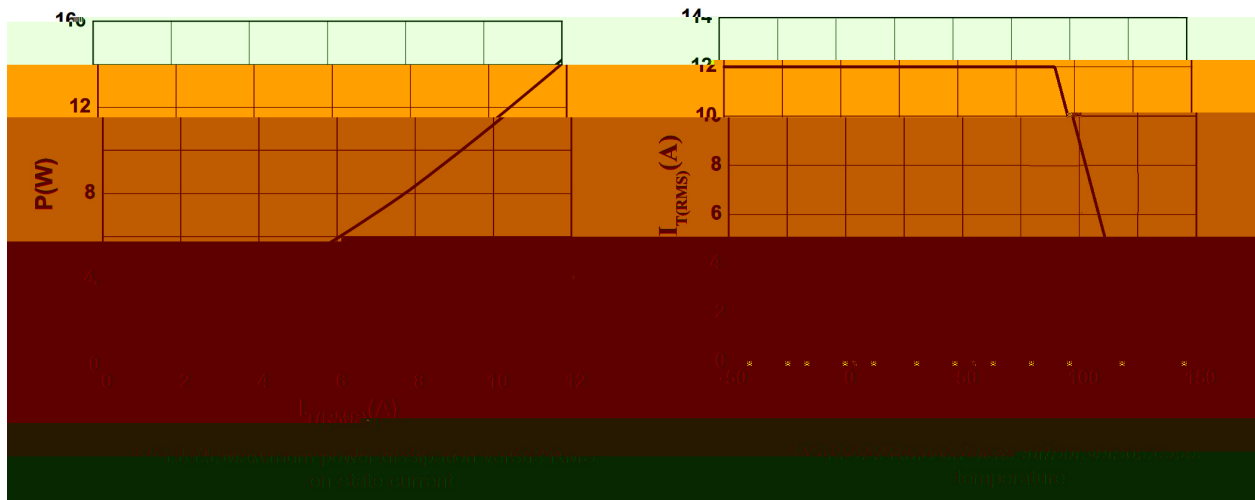
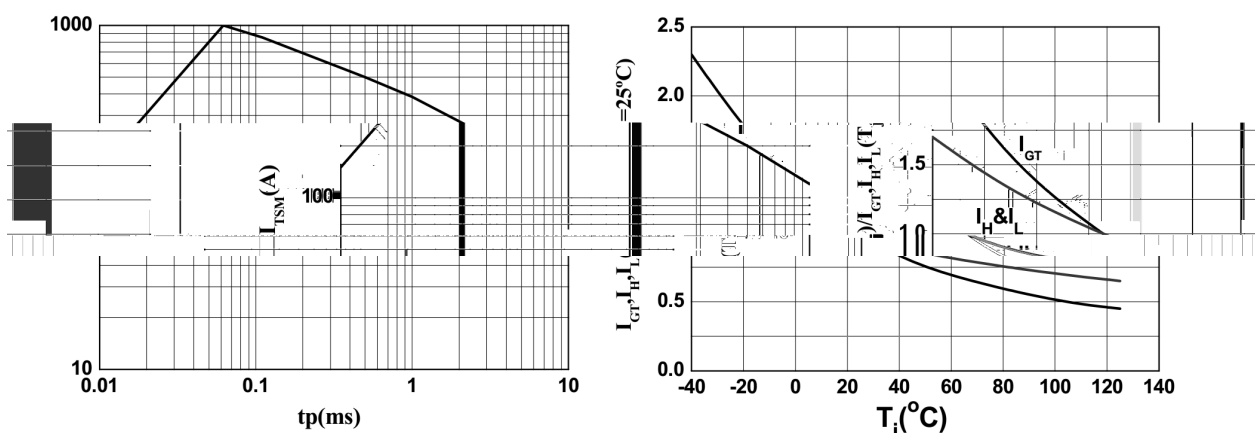
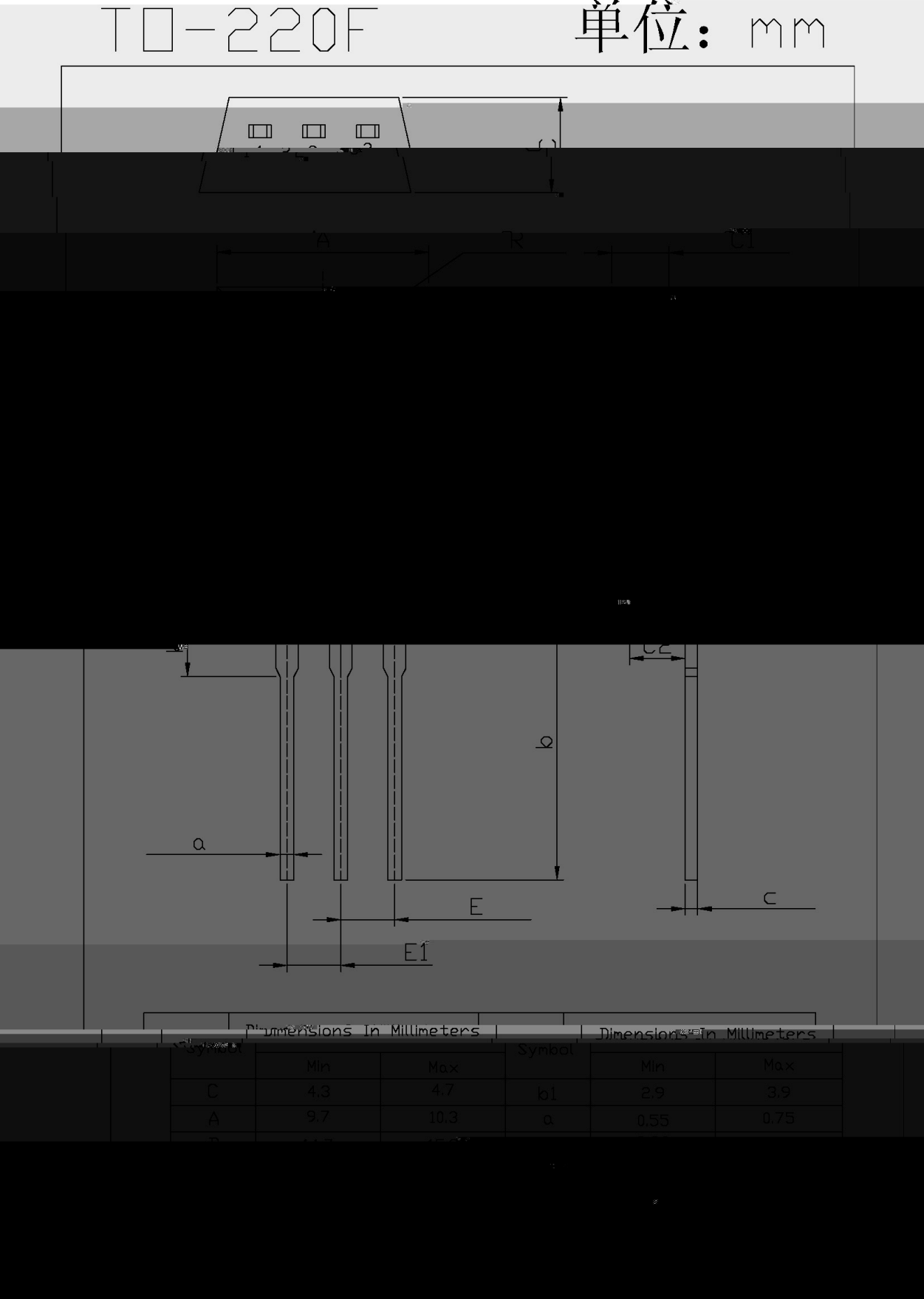


FIG.4: On-state characteristics

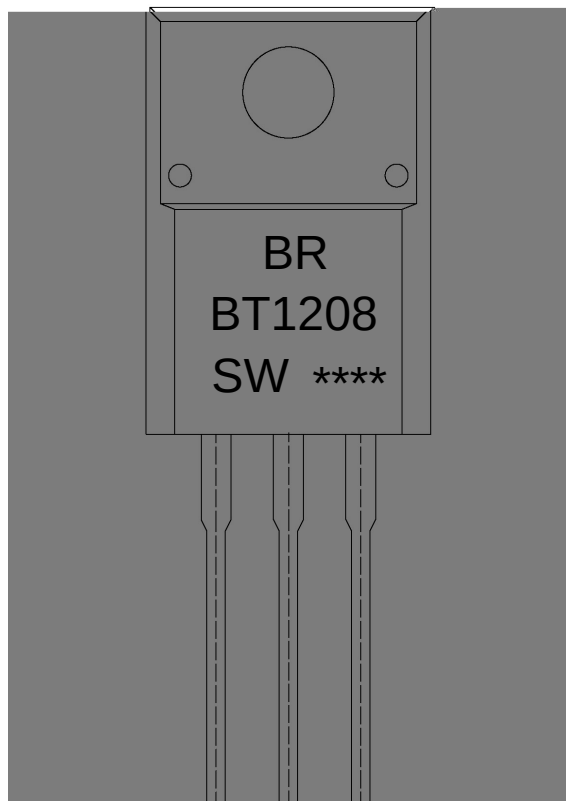
FIG.3: Surge peak on-state current versus number of cycles

FIG.5: Non repetitive surge peak on state current
 (Note: I_{TM} and I_{TSM} are the peak on-state current, holding current and freewheeling current versus junction temperature)FIG.6: Safe operating area (SOA) characteristics (Note: I_{GT} and I_{HL} are the peak on-state current, holding current and freewheeling current versus junction temperature for a sinusoidal pulse with width 100ms, and corresponding value of 12% (dI/dt=100A/μs)

/ Package Dimensions



/ Marking Instructions



BR

BT1208

SW

I_{GT}

Note:

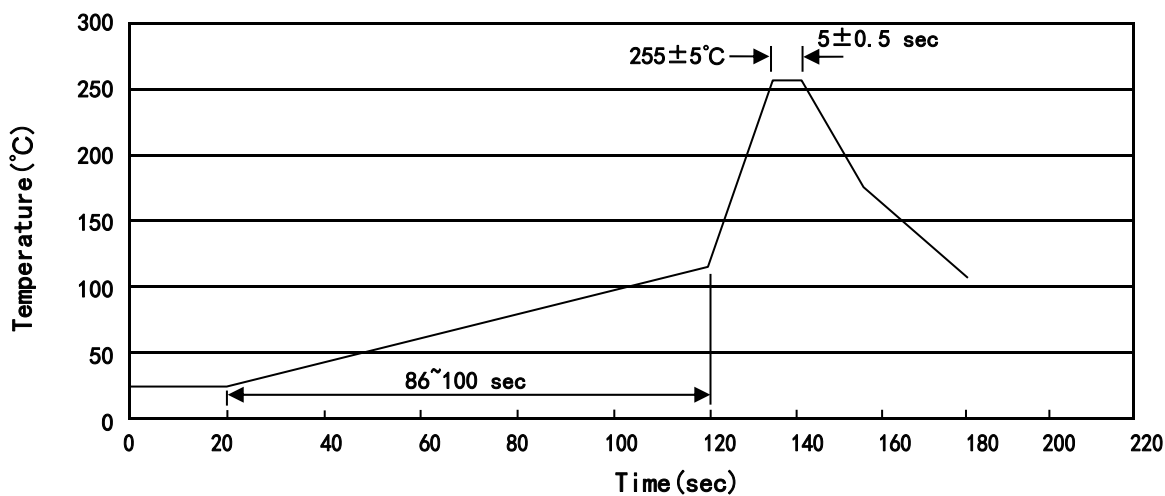
BR: Company Code

BT1208: Product Type Code

SW: I_{GT} Bracket code

****: Lot No. Code, code change with Lot No

() / Temperature Profile for Dip Soldering(Pb-Free)



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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ 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-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices