

# BRBT0808SWDP

Rev.A Nov.-2023



DATA SHEET

TO-252

Triac in a TO-252 Plastic Package.

Parameter	Symbol	Rating	Unit
Repetitive peak off-state/reverse voltages( $T_j=125$ )	$V_{DRM}/V_{RRM}$	800	V
RMS on-state current( $T_C=110$ )	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current(full cycle, $T_j=25^{\circ}C$ )	$I_{TSM(t=20ms)}$	80	A
$I^2t$ value for fusing( $T_j=25$ )	$I^2t_{(tp=10ms)}$	32	$A^2s$
Critical rate of rise of on-state current ( $I_G = 2I_{GT}$ , $f=120Hz$ $T_j=125$ )	$di/dt$ I-II-III	50	$A/\mu s$
Peak gate current( $t_p = 20\mu s$ $T_j=125$ )	$I_{GM}$	4.0	A
Average gate power dissipation( $T_j=125$ )	$P_{G(AV)}$	1.0	W
Operating junction temperature range	$T_j$	-40 125	
Storage junction temperature range	$T_{stg}$	-40 150	
Junction to ambient(AC)	$R_{th(j-a)}$	100	/W
Junction to case for(AC)	$R_{th(j-c)}$	3.1	



/ Package Dimensions

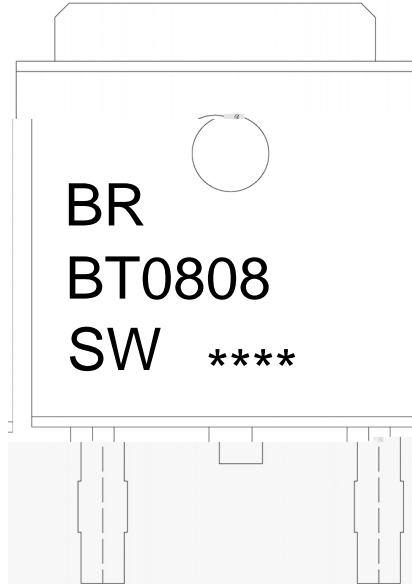


单位: mm

Symbol	Min	Max	Symbol	Min
A	2.30	2.40	F	5.95
B	0.50	0.52	G	4.75
C	0.45	0.55	H	9.95
D	5.16	5.50	I	0.00
D1	5.16	5.50	J	0.00
E	5.16	5.50	K	0.00
E1	5.16	5.50	L	0.00
E2	5.16	5.50	M	0.00
F	5.95	6.25	N	0.00
G	4.75	4.95	O	0.00
H	9.95	10.25	P	0.00
I	9.95	10.25	Q	0.00
J	0.00	0.05	R	0.00
K	0.00	0.05	S	0.00
L	0.00	0.05	T	0.00
M	0.00	0.05	U	0.00
N	0.00	0.05	V	0.00
O	0.00	0.05	W	0.00
P	0.00	0.05	X	0.00
Q	0.00	0.05	Y	0.00
R	0.00	0.05	Z	0.00

02-252

**/ Marking Instructions**



BR

BT0808

SW

I<sub>GT</sub>

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Note:

BR: Company Code

BT0808: Product Type Code

SW: I<sub>GT</sub> Bracket code

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

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)


Note:

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

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units				Dimension (unit mm <sup>3</sup> )		
TO-252	2,elnne137ref5e858	.47998	15.9	ref410.1635427ons2D0	4	Tf(5,05427ons)2200f(6D0	9