TBR-L 10A/15A/25A/35A SERIES

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **10/15/25/35** Amperes

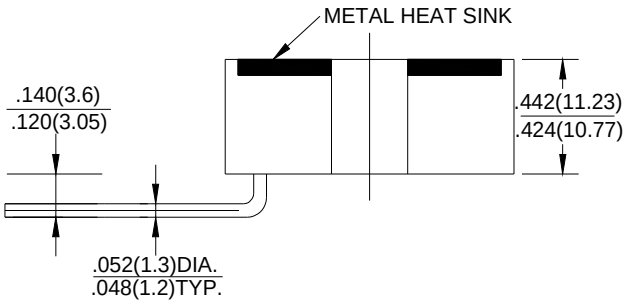
Features

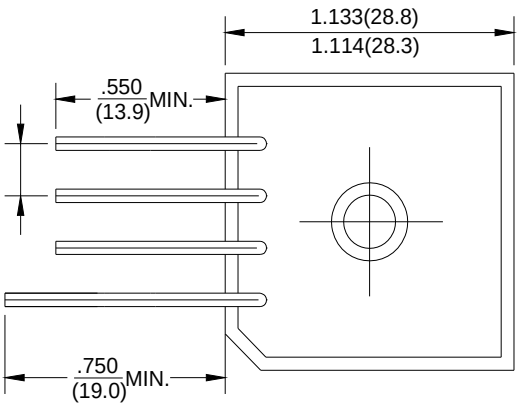
- Plastic case with heatsink for heat dissipation
- Surge overload -240~400 Amperes peak
- The plastic package has UL flammability classification 94V-0

MECHANICAL DATA

- Case:Molded plastic with heatsink integrally mounted in the bridge encapsulation
- Weight:1 ounce,30 grams.
- Mounting position: Any
- Terminals:Wire Lead Φ 50 mils.

Dimensions In Inches and (milimeters)





BR-L

Part Number Code

T	B	R	1	0	0	0	5	L
1	2	3	4	5	6	7	8	9

Product Type	
TSK	TBR series

Rectified Current	
10	10A
15	15A
25	25A

Peak Repetitive Reverse Voltage (V)	
005	50V
01	100V
02	200V

ZZZ	Internal code rule

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TBR 1005L 1505L 2505L 3505L	TBR 101L 151L 251L 351L	TBR 102L 152L 252L 352L	TBR 104L 154L 254L 354L	TBR 106L 156L 256L 356L	TBR 108L 158L 258L 358L	TBR 1010L 1510L 2510L 3510L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load @T_C=55℃	$I_{(AV)}$	TBR 10L: 10	TBR 15L: 15	TBR 25L: 25	TBR 35L: 35				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	240	300	400	400				A
Maximum Forward Voltage Per Bridge Element at 5.0/7.5/12.5/17.5A Peak	V_F	1.1							V
Maximum Reverse Current at Rate @T_J=25℃ DC Blocking Voltage @T_J=100℃	I_R	10 1000							μA
I^2t Rating for Fusing (t<8.3ms)	I^2t	239/374/664							A^2S
Typical Thermal Resistance	$R_{\theta JC}$	2.0							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES:1.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

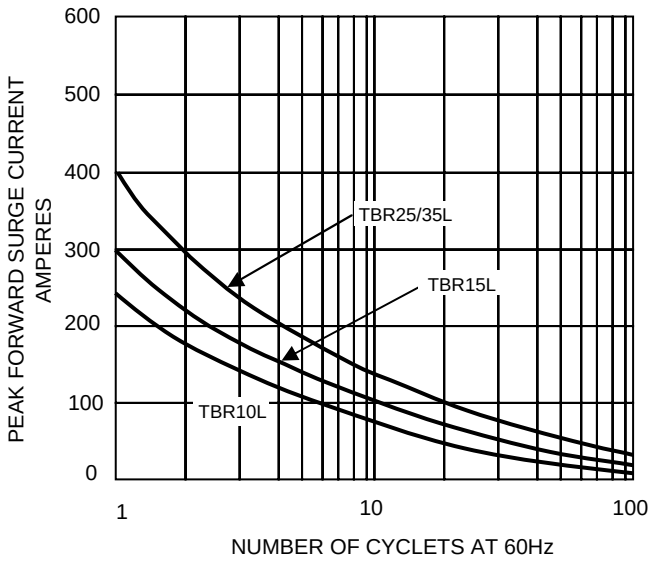


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

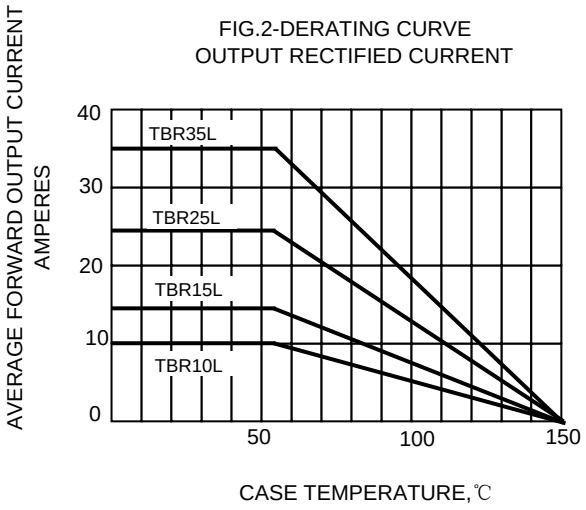


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

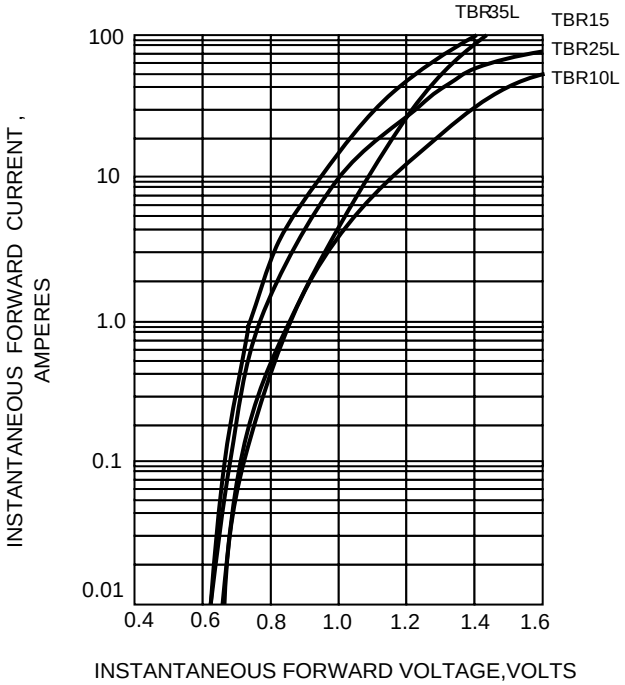
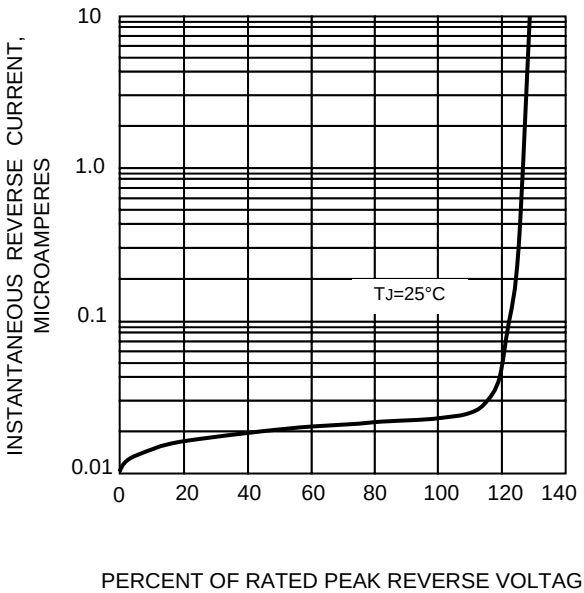


FIG.4-TYPICAL REVERSE
CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!