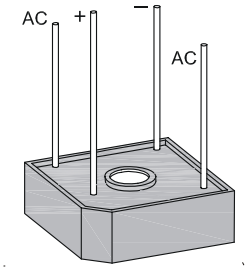
25.0A Single-Phase Bridge Rectifier



TB35W

Features

- High forward surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds, 5 lbs (2.3kg) tension
- RoHS Compliant

Mechanical Data

Case:	Molded plastic body with Metal Heat Sink
Polarity:	Polarity symbols marked on case
Terminals:	Plated 0.25" (6.35mm) lug
Mounting Position:	Thru hole for #10 screw,20 in -lbs. torque max
Weight:	0.53 ounce, 15 grams

Maximum Ratings & Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbols	Description	TB2505W	TB251W	TB252W	TB254W	TB256W	TB258W	TB2510W	Unit
V_{RRM}	Max. recurrent peak reverse voltage	50	100	200	400	600	800	1000	V
V_{RMS}	Max. RMS voltage	35	70	140	280	420	560	700	V
V_{DC}	Max. DC blocking voltage	50	100	200	400	600	800	1000	V
$I_{O(AV)}$	Max. average forward rectified current @ TC=50° C	25.0							A
I_{FSM}	Peak forward surge current (JEDEC)	300							A
I^2t	Rating for Fusing (t<8.3ms)	375							A^2sec
V_{ISO}	Isolation Voltage from case to lugs	2500							V
C_j	Typical Capacitance Junction(per element)(Note 2)	300							pF
T_J	Operating junction temperature range	-65 to +150							° C
T_{STG}	Storage Temperature Range	-65 to +150							° C

Symbol	Description		TB2505W	TB251W	TB252W	TB254W	TB256W	TB258W	TB2510W	Unit
V_F	Maximum Instantaneous Forward Voltage Drop Per Leg@12.5 A		1.1							V
I_R	Maximum DC Reverse Current Rated DC Blocking Voltage	T_A=25° C	10.0							uA
		T_A=100° C	500							uA
$R_{\theta-JC}$	Maximum Thermal Resistance (Note 3)		2.0							° C/W

NOTES:

1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method).
2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
3. Thermal resistance junction to case mounted on heat sink.

Typical Characteristics Curves

Fig.1- Typical Forward Current Derating Curve

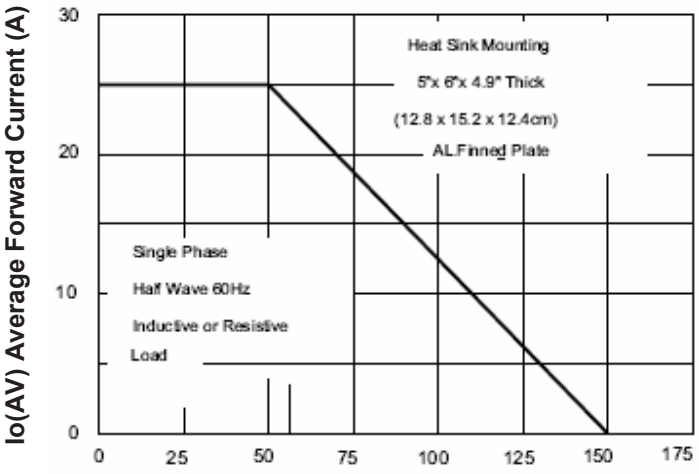


Fig.2-Max. Non-repetitive Peak Forward Surge Current

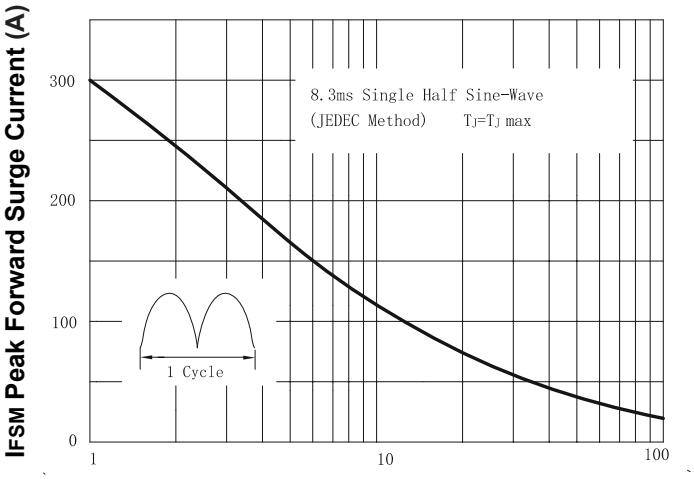


Fig.3- Typical Instantaneous Forward Characteristics

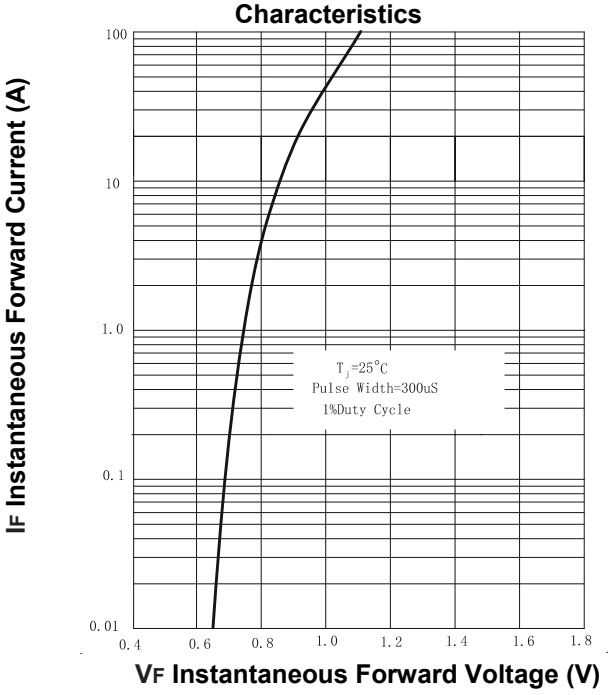


Fig.4- Typical Reverse Characteristics

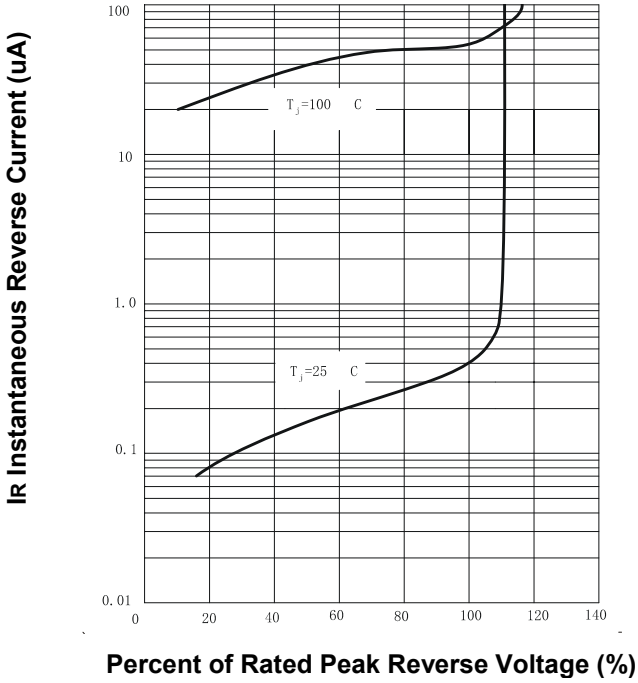
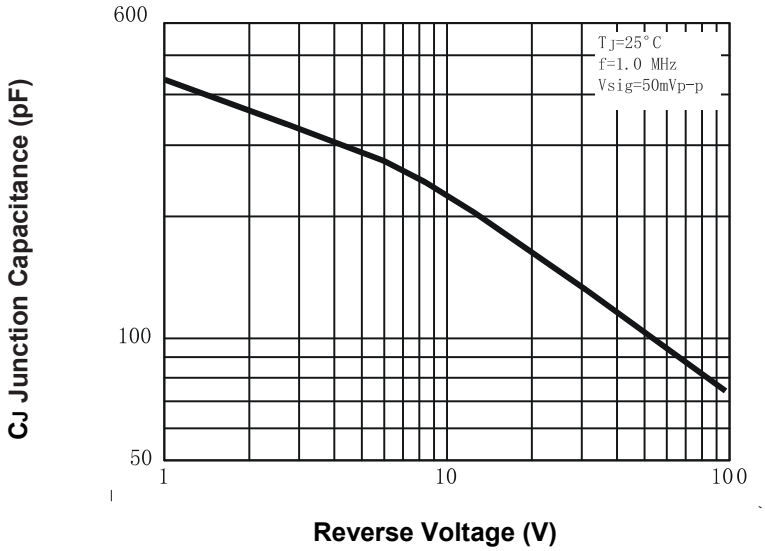
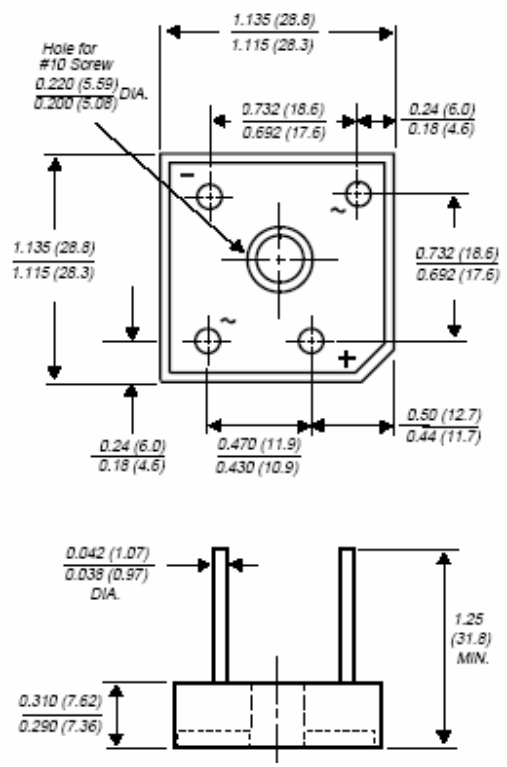


Fig.5-Typical junction capacitance



Dimensions in inches (mm)

TB35W



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