

TAITRON

components incorporated

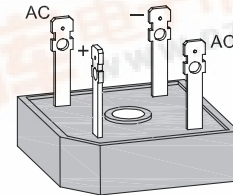
35.0A SINGLE-PHASE
BRIDGE RECTIFIER

TB3505 -TB3510

35.0A Single-Phase Bridge Rectifier

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



TB35



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 ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbols	Description	TB3505	TB351	TB352	TB354	TB356	TB358	TB3510	Unit
VRRM	Max. recurrent peak reverse voltage	50	100	200	400	600	800	1000	V
VRMS	Max. RMS voltage	35	70	140	280	420	560	700	V
VDC	Max. DC blocking voltage	50	100	200	400	600	800	1000	V
Io(AV)	Max. average forward rectified current @ $T_C=50^{\circ}\text{C}$	35.0							A
IFSM	Peak forward surge current (JEDEC)	400							A
I²t	Rating for Fusing ($t<8.3\text{ms}$)	660							A ² sec
Viso	Isolation Voltage from case to lugs	2500							V
Cj	Typical Capacitance Junction(per element)(Note 2)	300							pF
TJ	Operating junction temperature range	-65 to +150							°C
TSTG	Storage Temperature Range	-65 to +150							°C

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Symbol	Description	TB3505	TB351	TB352	TB354	TB356	TB358	TB3510	Unit
V_F	Maximum Instantaneous Forward Voltage Drop Per Leg@17.5 A	1.1							V
I_R	Maximum DC Reverse Current Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$ 10.0							μA
		$T_A=100^\circ\text{C}$ 500							μA
$R_{\theta-JC}$	Maximum Thermal Resistance (Note 3)	1.5							$^\circ\text{C/W}$

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

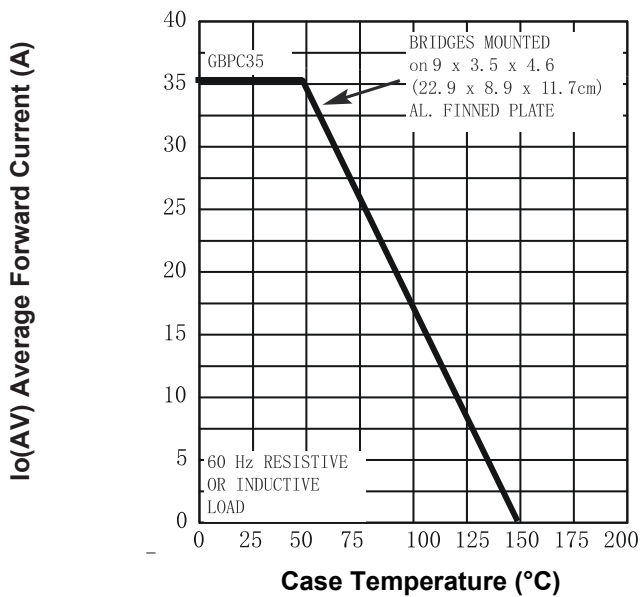
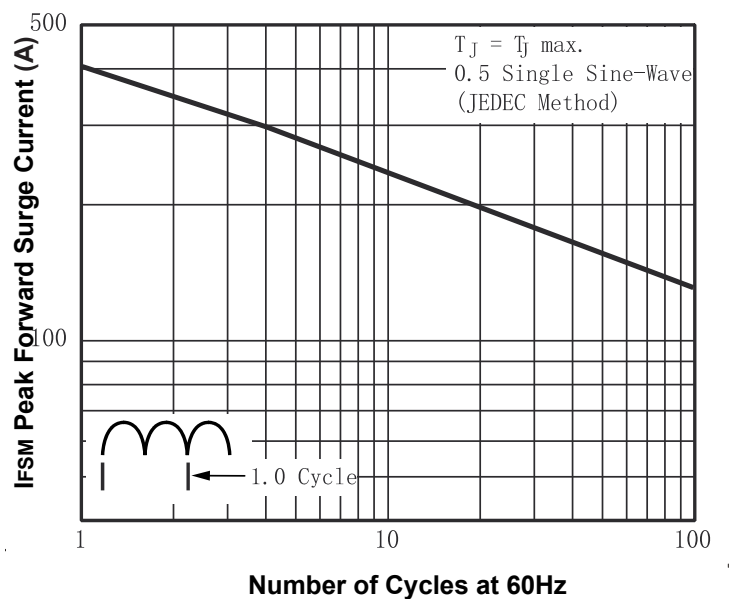


Fig.2-Max. Non-repetitive Peak Forward Surge Current



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Fig.3- Typical Instantaneous Forward Characteristics

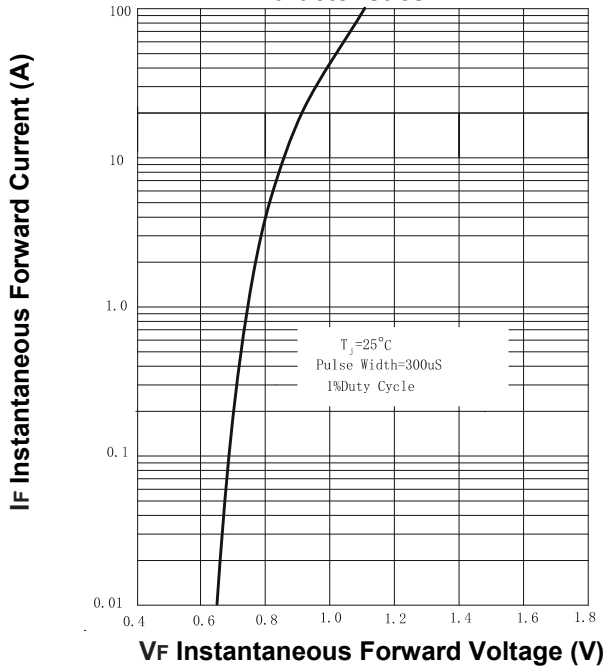


Fig.4- Typical Reverse Characteristics

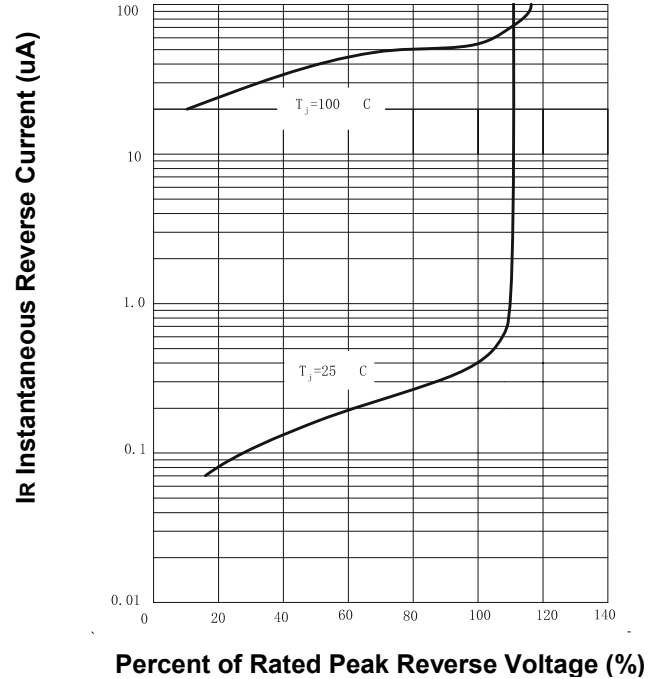
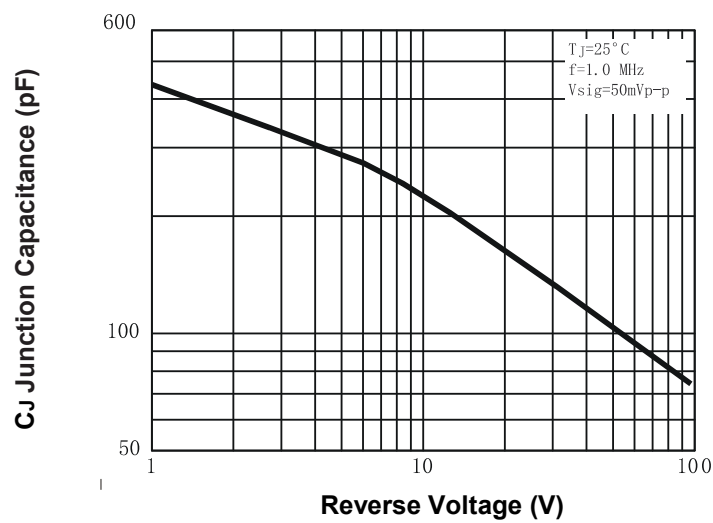
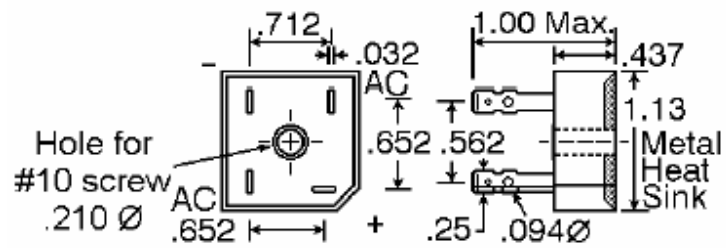


Fig.5-Typical junction capacitance



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TB35



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