



# WEE Technology Company Limited

## Single Phase Bridge Rectifiers

DB101 THRU DB107

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere

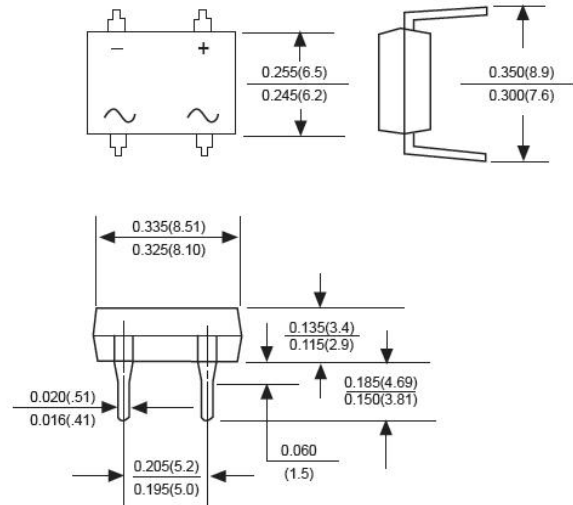
### FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Ideal for printed circuit boards
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
260 C/10 seconds, 5 lbs. (2.3kg) tension

### MECHANICAL DATA

- **Case:** Molded plastic body
- **Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
- **Polarity:** Polarity symbols marked on case
- **Mounting Position:** Any
- **Weight:** 0.02 ounce, 0.4 grams

**DB**



*Dimensions in inches and (millimeters)*

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25\* ambient temperature unless otherwise specified.
- Single phase half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

Catalog Number	SYMBOLS	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_A=40^\circ\text{C}$	$I_{(AV)}$	1							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							Amps
Maximum instantaneous forward voltage drop per bridge element at 1.0A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	$T_A = 25^\circ\text{C}$	10							uA
	$T_A = 125^\circ\text{C}$	500							
Operating temperature range	$T_J$	-55 to +150							$^\circ\text{C}$
storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

#### Notes:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on P.C. board with 0.51" x 0.51"(13x13mm) copper pads.



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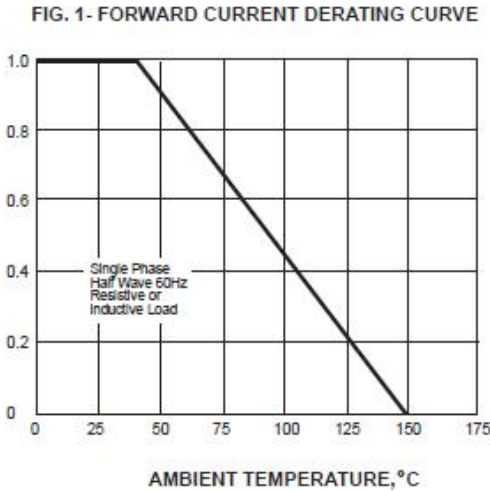
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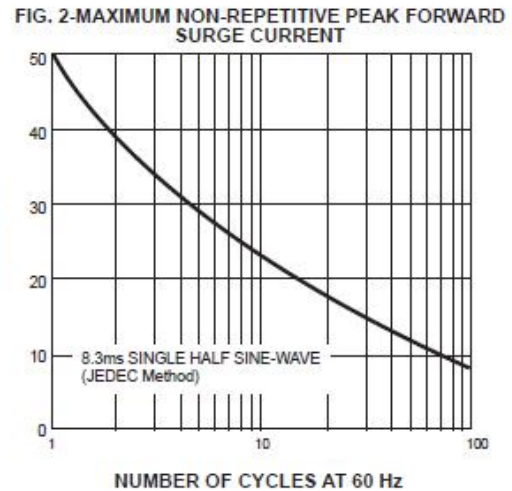
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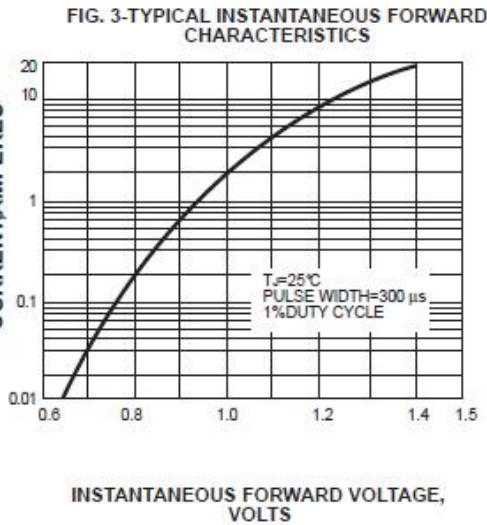
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



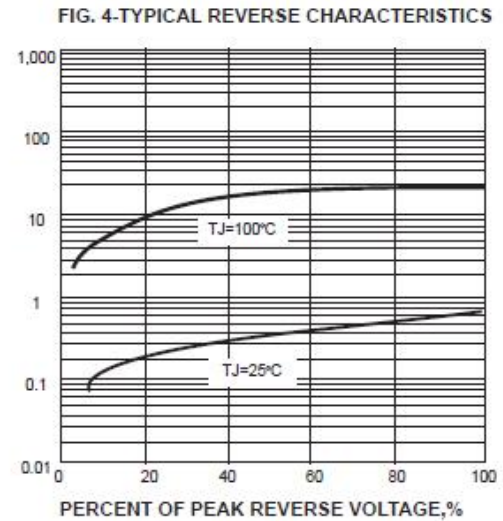
PEAK FORWARD SURGE CURRENT, AMPERES



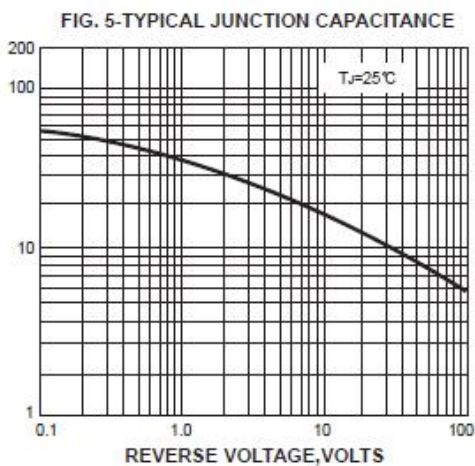
INSTANTANEOUS FORWARD CURRENT, AMPERES



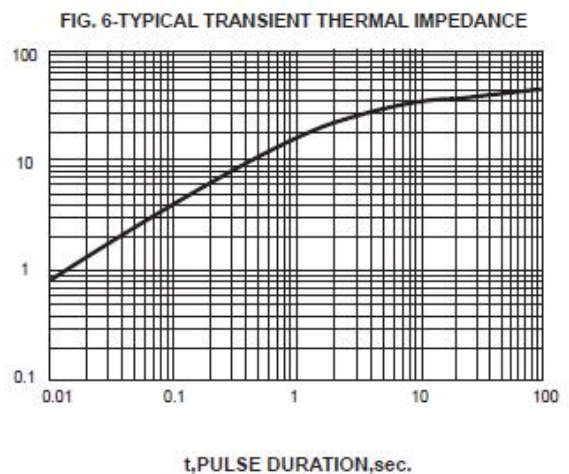
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

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