

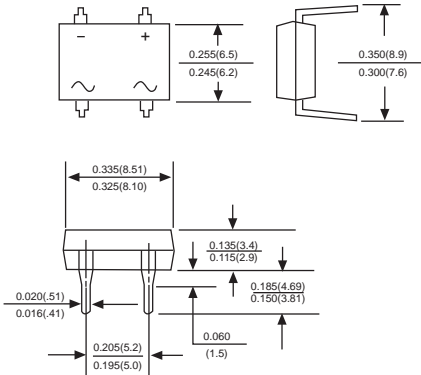


# DB101 THRU DB107

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.0 Ampere

## DB



## 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

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

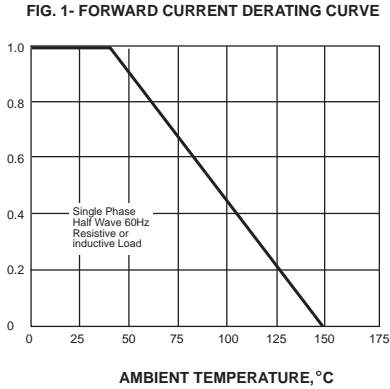
Ratings at 25\* ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

TWGMC Catalog Number	SYMBOLS	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
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 $T_A=40^*$	$I_{F(AV)}$	1.0							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	$I_R$	10 500							$\mu A$ $\mu A$
Operating temperature range	$T_J$	-55 to +150							°C
storage temperature range	$T_{STG}$	-55 to +150							°C

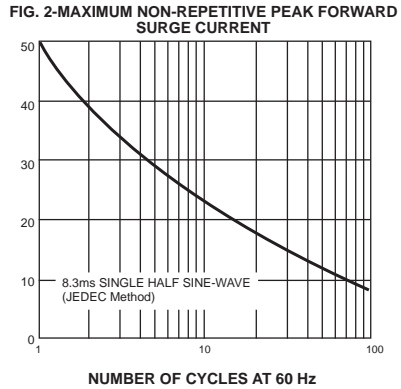
NOTES:  
 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.  
 2. Unit mounted on P.C. board with 0.51" x 0.51" (13x13mm) copper pads.

# RATINGS AND CHARACTERISTIC CURVES DB101 THRU DB107

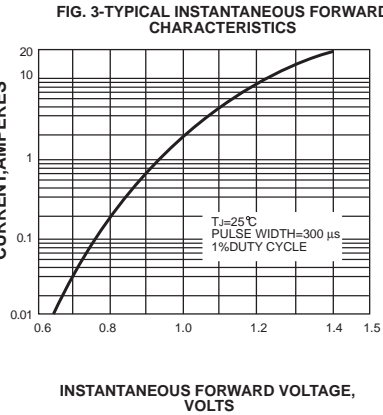
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



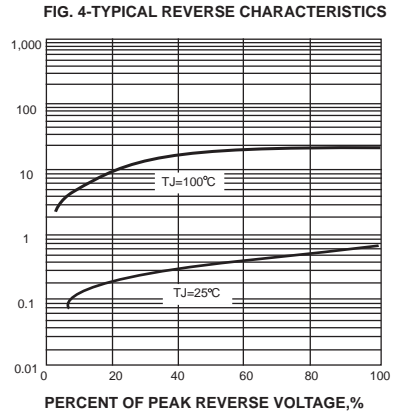
PEAK FORWARD SURGE CURRENT, AMPERES



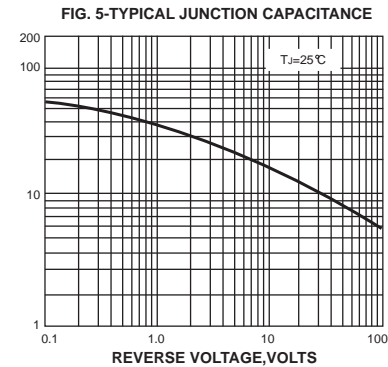
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  $^\circ\text{C}/\text{W}$

