



## DB107G

DIODE

### 1.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

#### DESCRIPTION

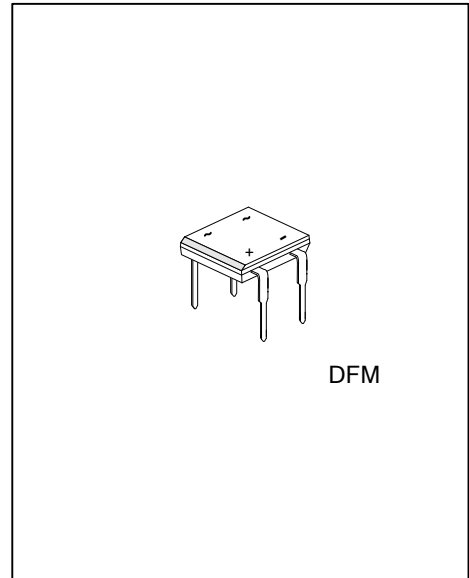
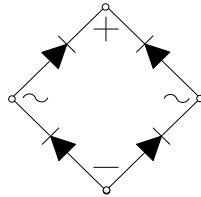
The UTC **DB107G** is a 1.0A glass passivated single-phase bridge rectifier.

The UTC **DB107G** is suitable for automatic insertion.

#### FEATURES

- \* Surge overload ratings to 30 amperes peak
- \* Recommended for non-automatic applications
- \* Suitable for automatic insertion
- \* Glass passivated chip junctions

#### SYMBOL

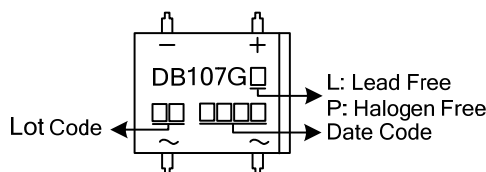


#### ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
DB107GL-DFM-T	DB107GP-DFM-T	DFM	Tube

<p>DB107GL-DFM-T</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) Tube: Tube</p> <p>(2) DFM: DFM</p> <p>(3) L: Lead Free, P: Halogen Free and Lead Free</p>
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#### MARKING



■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
RMS Voltage	$V_{RMS}$	700	V
Continuous Reverse Voltage	$V_R$	1000	V
Forward Rectified Current 0.06"(1.5mm) lead length at $T_A=40^\circ\text{C}$ (Note 2)	$I_o$	1.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	50	A
$I^2t$ Rating for Fusing $t < 8.3\text{ms}$	$I^2t$	10	$\text{A}^2\text{s}$
Operating Temperature	$T_J$	-65~+150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-65~+150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.  
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS (Note 2)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	$\theta_{JA}$	40	$^\circ\text{C/W}$

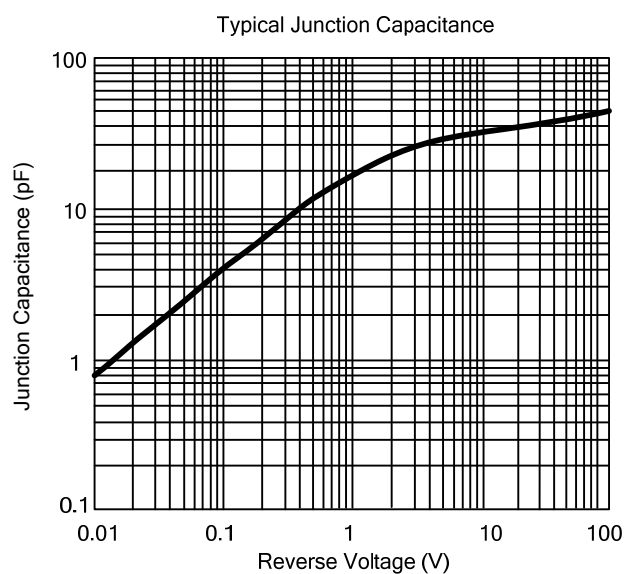
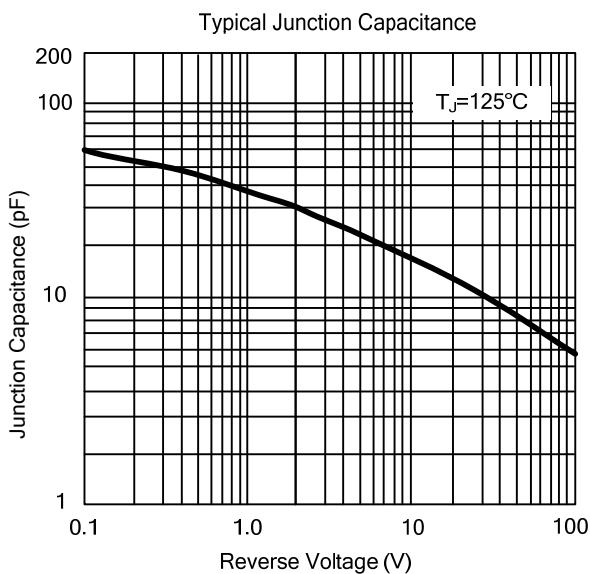
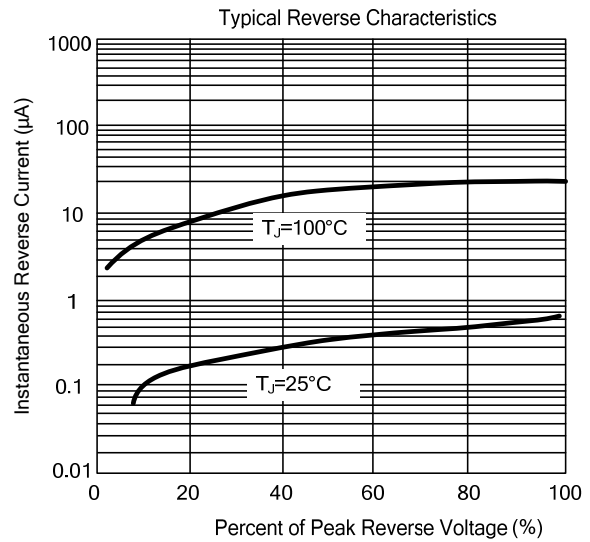
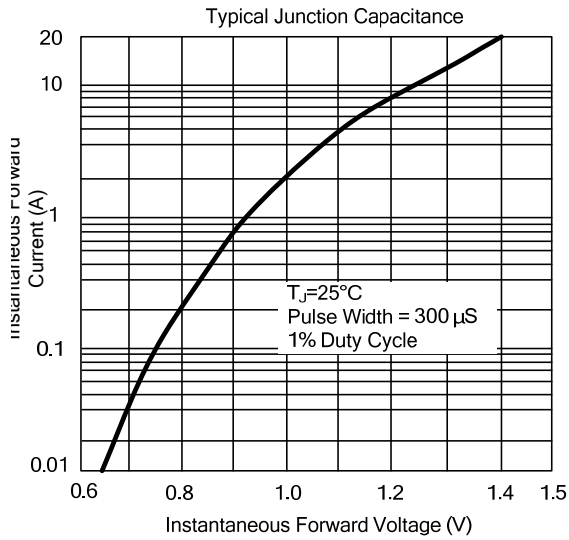
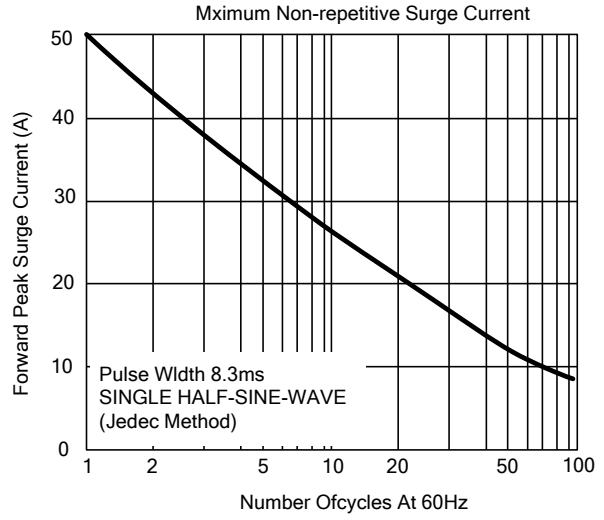
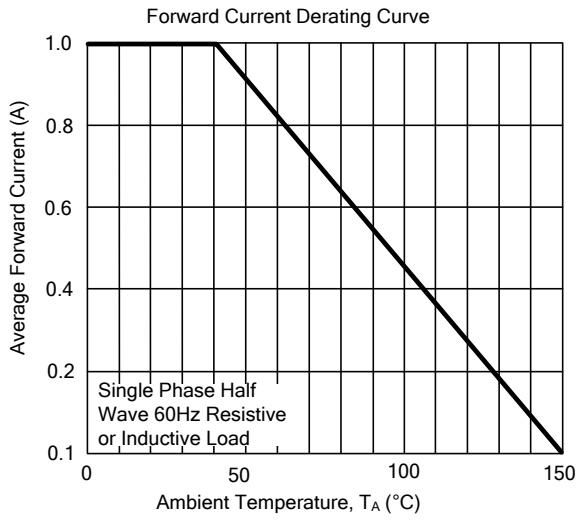
■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage ( $t < 8.3\text{ms}$ )	$V_F$	$I_F=1.0\text{A}$			1.10	V
DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$V_R=V_{RRM}, T_A=25^\circ\text{C}$			10	$\mu\text{A}$
		$V_R=V_{RRM}, T_A=100^\circ\text{C}$			500	$\mu\text{A}$
Junction Capacitance Per Element (Note 1)	$C_J$			25		pF

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on P.C.B with 0.51"×0.51"(13×13mm) copper pads.

## TYPICAL CHARACTERISTICS



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