



DB107G

DIODE

1.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

DESCRIPTION

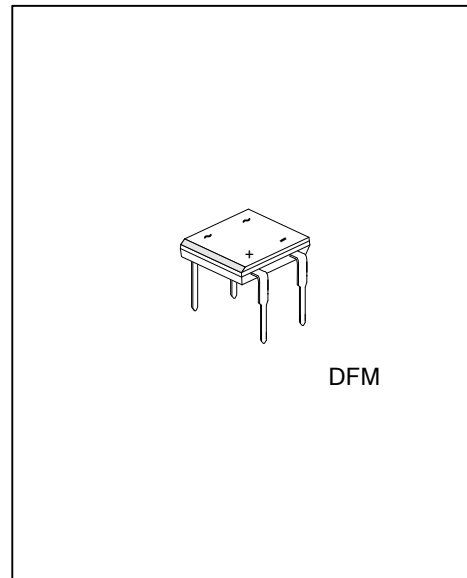
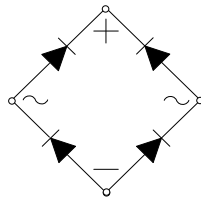
The UTC **DB107G** is a 1.0A glass passivated single-phase bridge rectifier.

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

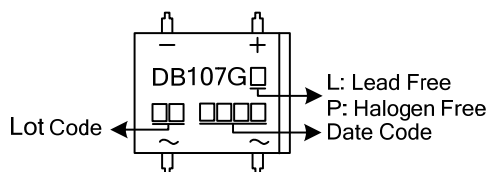


ORDERING INFORMATION

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	A^2s
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	θ_{JA}	40	$^\circ\text{C/W}$

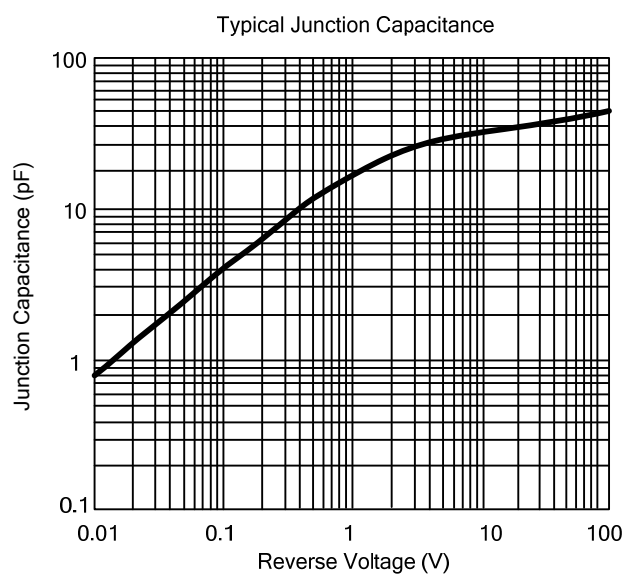
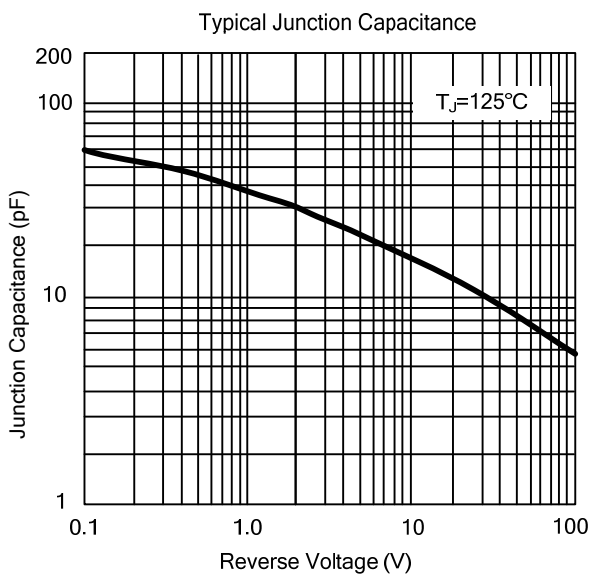
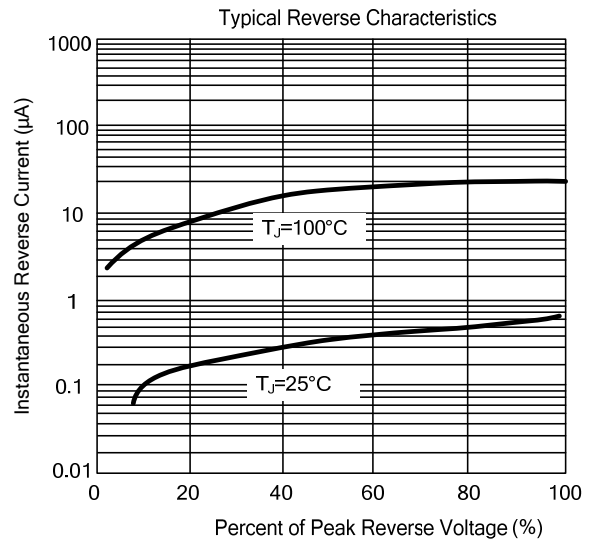
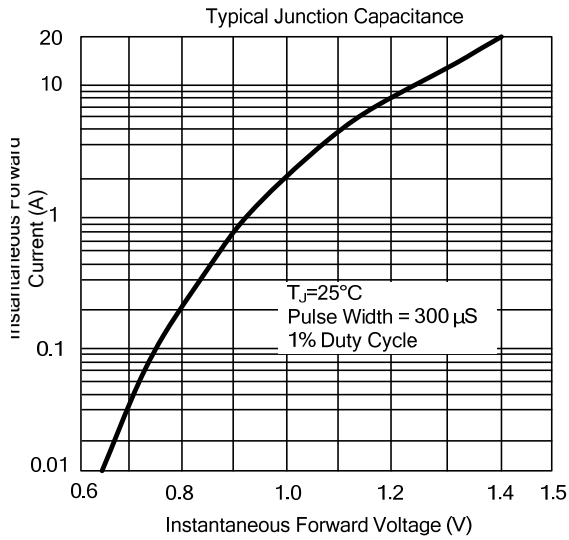
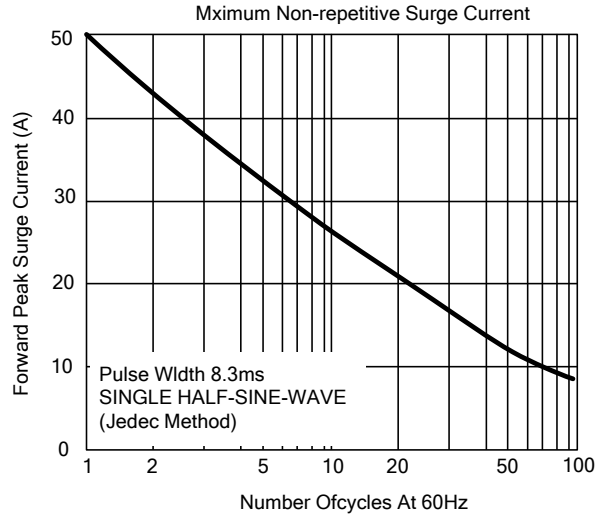
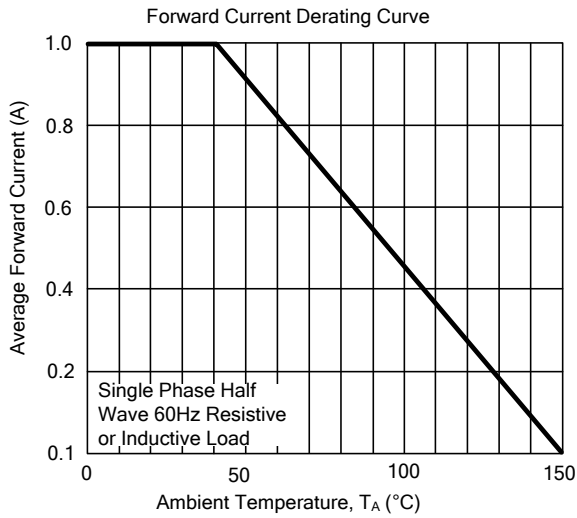
■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

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	μA
		$V_R=V_{RRM}, T_A=100^\circ\text{C}$			500	μA
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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