



DB107G

DIODE

1.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

■ DESCRIPTION

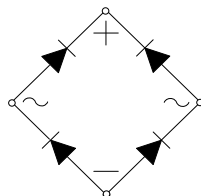
The UTC **DB107G** is a 1.0A glass passivated single-phase bridge rectifier.

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

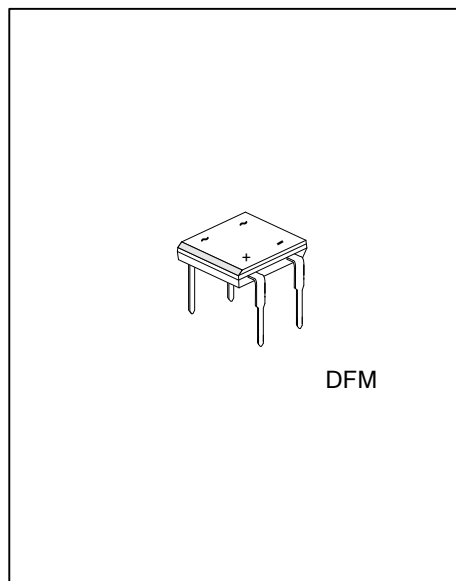
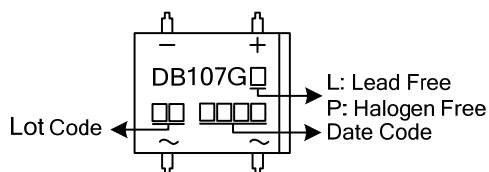


■ ORDERING INFORMATION

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

DB107GL-DFM-T (1) Packing Type (2) Package Type (3) Green Package	(1) Tube: Tube (2) DFM: DFM (3) L: Lead Free, P: Halogen Free and Lead Free
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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	$-65\sim+150$	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	$-65\sim+150$	$^{\circ}\text{C}$

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	$^{\circ}\text{C/W}$

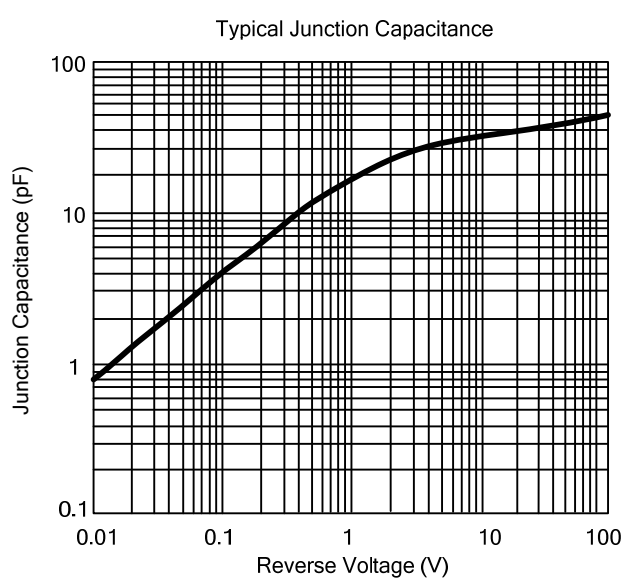
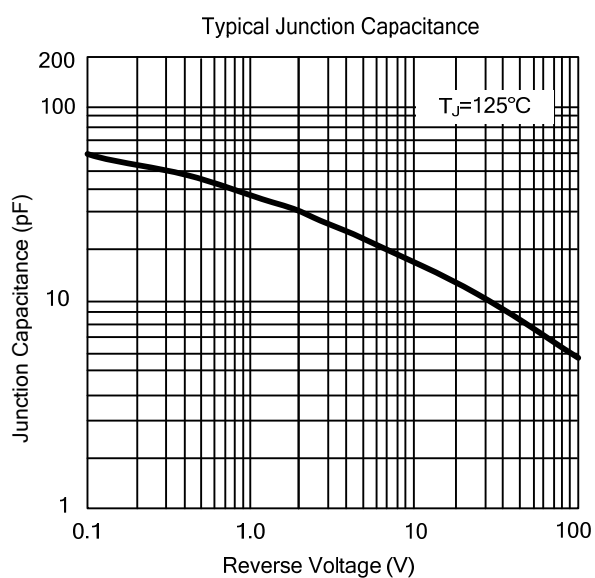
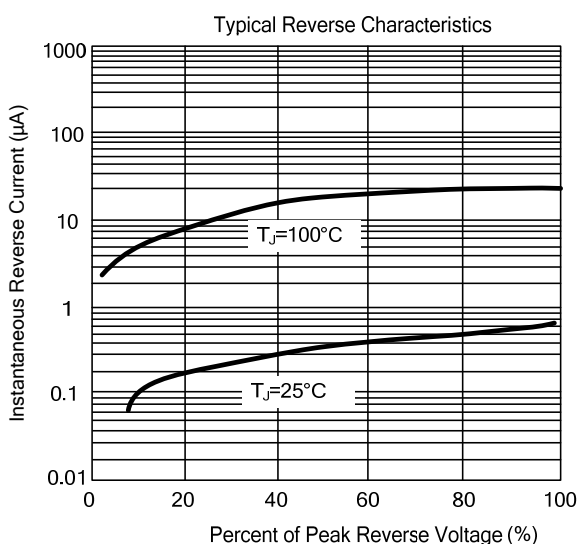
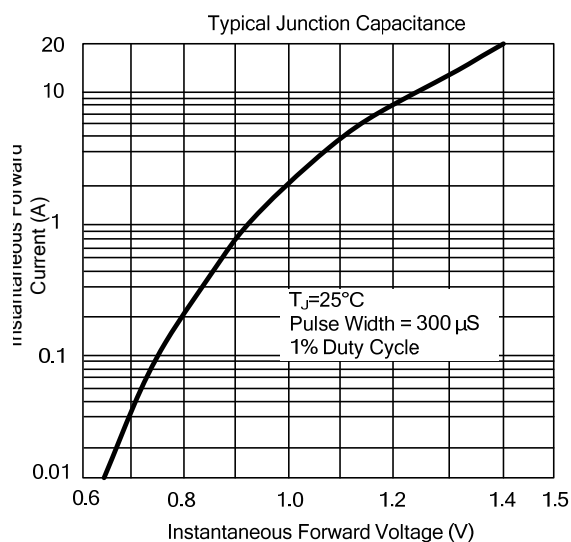
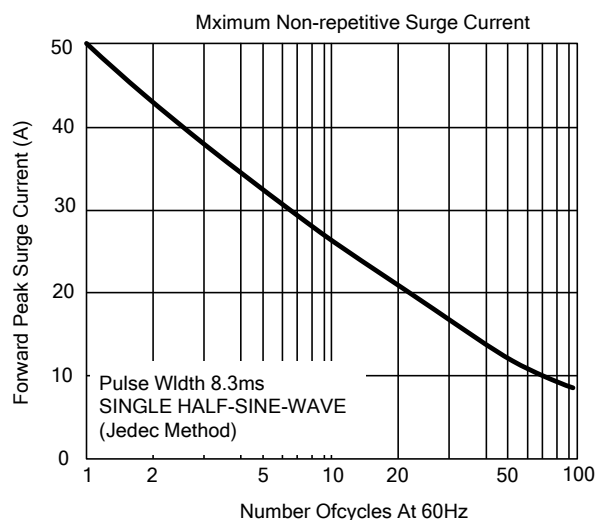
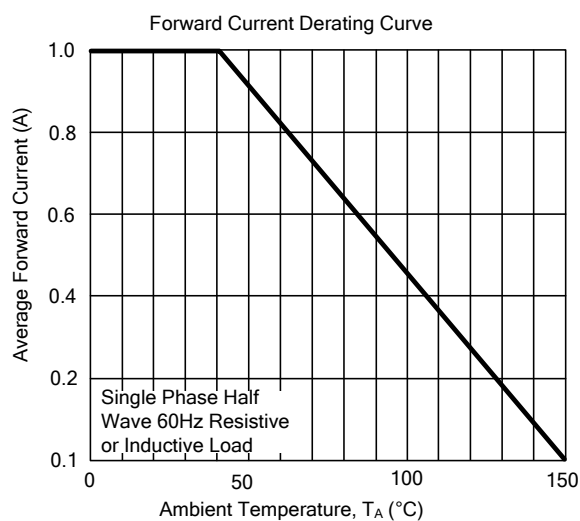
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

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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