



DB106G

DIODE

1.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

■ DESCRIPTION

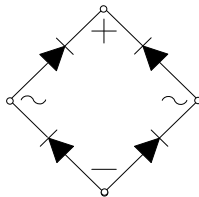
The UTC **DB106G** is a 1.0A glass passivated single-phase bridge rectifier.

The UTC **DB106G** 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

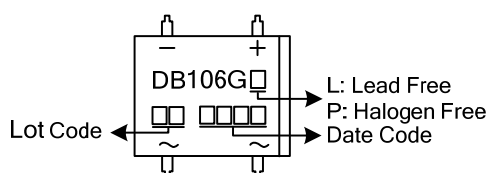


■ ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
DB106GL-DFM-T	DB106GP-DFM-T	DFM	Tube

DB106GL-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°C unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	800	V
RMS Voltage	V _{RMS}	560	V
Continuous Reverse Voltage	V _R	800	V
Forward Rectified Current 0.06"(1.5mm) lead length at T _A =40°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 ² t Rating for Fusing t<8.3ms	I ² t	10	A ² s
Operating Temperature	T _J	-65~+150	°C
Storage Temperature	T _{STG}	-65~+150	°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	°C/W

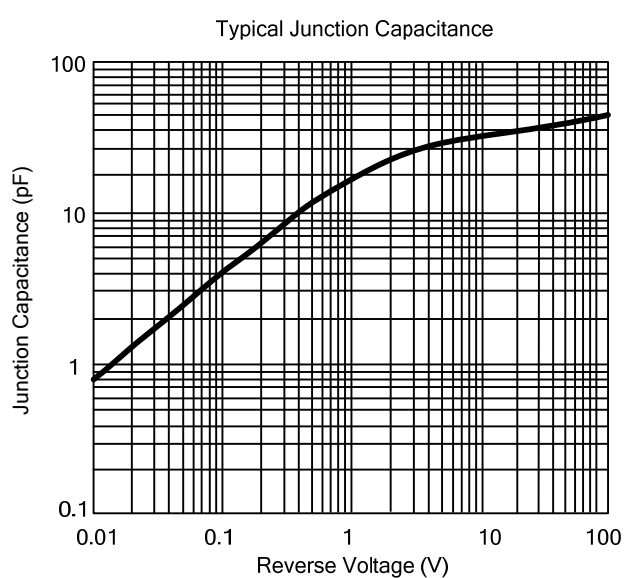
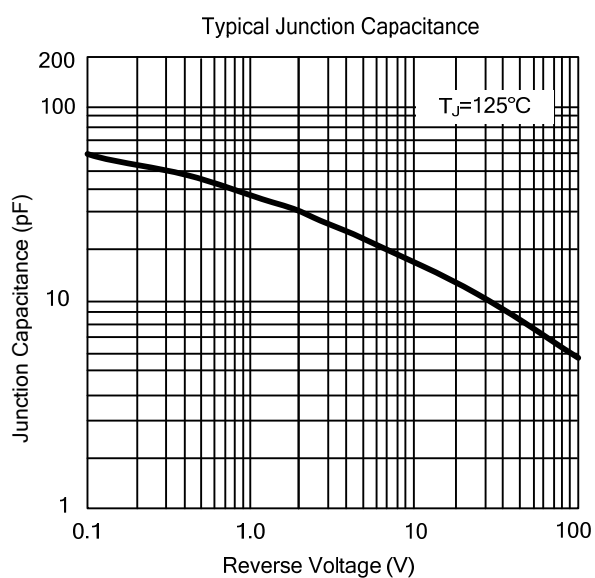
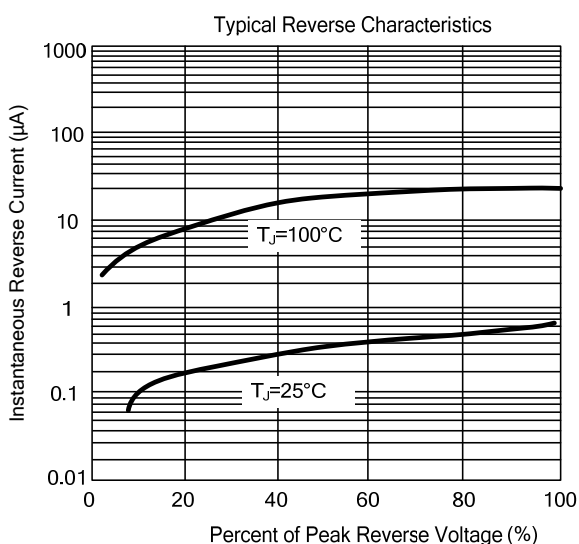
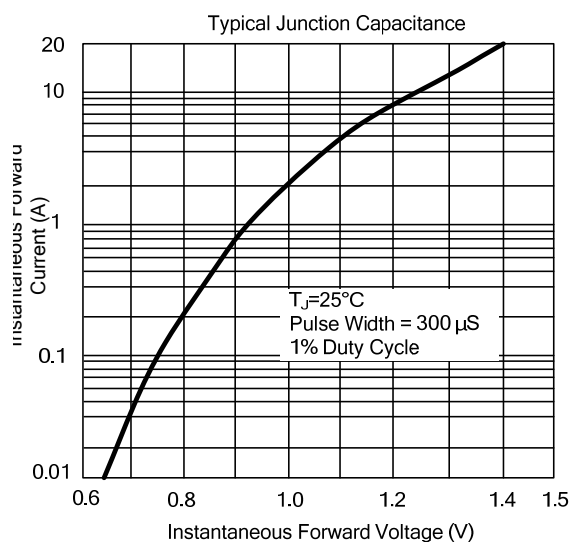
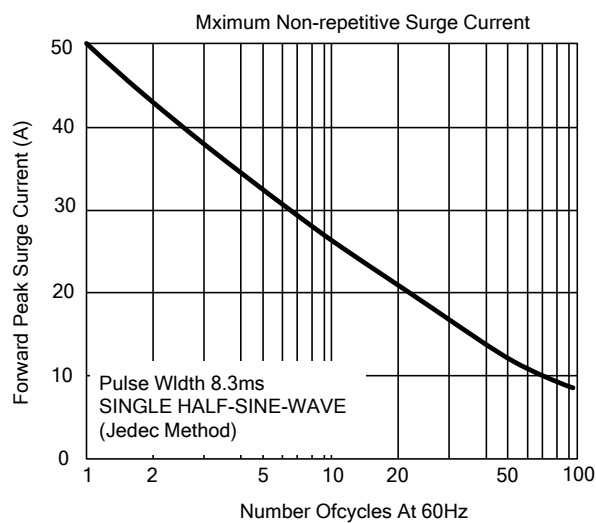
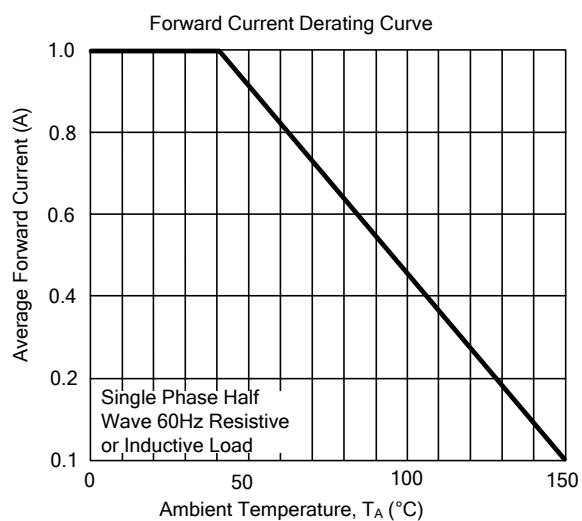
■ ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage (t<8.3ms)	V _F	I _F =1.0A			1.10	V
DC Reverse Current at Rated DC Blocking Voltage	I _R	V _R =V _{RRM} , T _A =25°C			10	μA
		V _R =V _{RRM} , T _A =100°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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