



## 1N5408G

DIODE

### GLASS PASSIVATED SILICON RECTIFIER

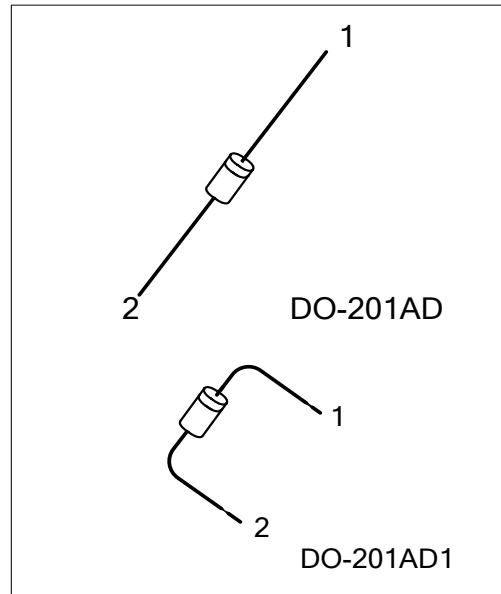
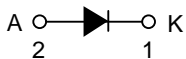
#### DESCRIPTION

The UTC **1N5408G** is a glass passivated silicon rectifier, it uses UTC's advanced technology to provide customers with high forward surge current and low reverse leakage, etc.

#### FEATURES

- \* Low reverse leakage
- \* High forward surge current capability

#### SYMBOL



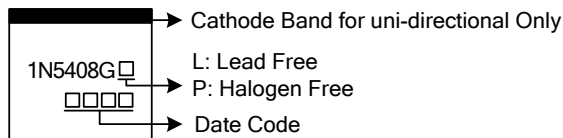
#### ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
1N5408GL-Z21D-B	1N5408GP-Z21D-B	DO-201AD	K	A	Tape Box
1N5408GL-Z21D-R	1N5408GP-Z21D-R	DO-201AD	K	A	Tape Reel
1N5408GL-Z21D-K	1N5408GP-Z21D-K	DO-201AD	K	A	Bulk
1N5408GL-Z21D1-B	1N5408GP-Z21D1-B	DO-201AD1	K	A	Tape Box

Note: Pin Assignment: A: Anode K: Cathode

<p>1N5408GP-Z21D-B</p>	<p>(1) B: Tape Box, R: Tape Reel, K: Bulk  (2) Z21D: DO-201AD, Z21D1: DO-201AD1  (3) P: Halogen Free and Lead Free, L: Lead Free</p>
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#### MARKING



## ■ ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
Working Peak Reverse Voltage	$V_{RWM}$	1000	V
Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Reverse Voltage	$V_{RMS}$	700	V
DC Blocking Voltage	$V_R$	1000	V
Average Rectified Output Current ( $T_A=105^\circ\text{C}$ )	$I_O$	3.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	150	A
Junction Temperature	$T_J$	-55 ~ +150	°C
Storage Temperature	$T_{STG}$	-55 ~ +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 DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient (Note 2)	$\theta_{JA}$	30	°C/W

## ■ ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

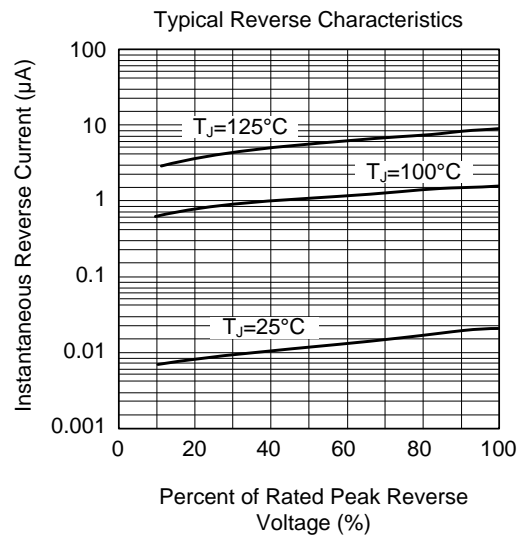
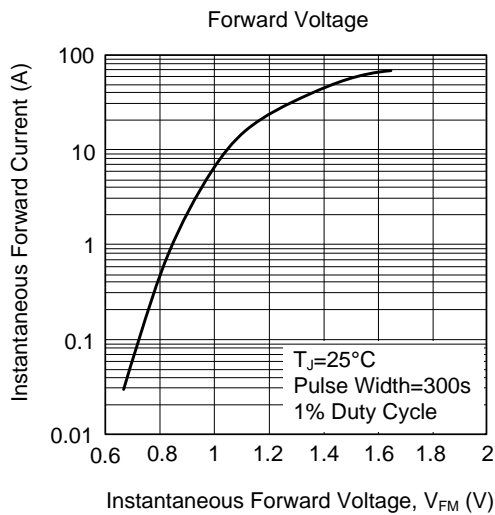
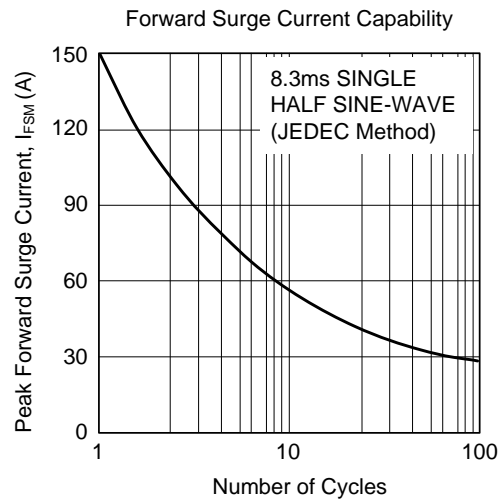
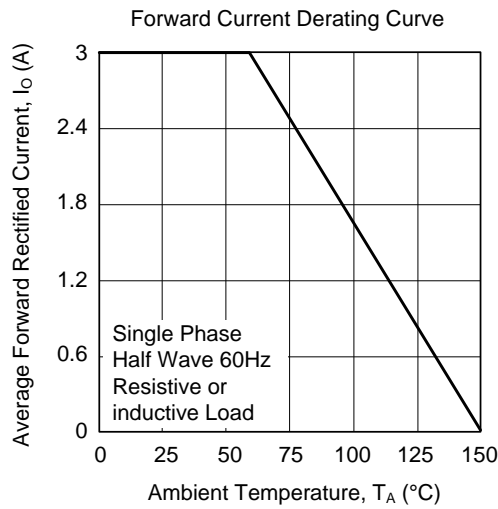
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	$V_F$	$I_F=3.0\text{A}$			1.0	V
DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_A=25^\circ\text{C}$			2.5	$\mu\text{A}$
		$T_A=125^\circ\text{C}$			50	$\mu\text{A}$
Junction Capacitance (Note 1)	$C_J$			50		pF

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

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

## ■ TYPICAL CHARACTERISTICS



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