

# UNISONIC TECHNOLOGIES CO., LTD

1N5408G **DIODE** 

# GLASS PASSIVATED SILICON RECTIFIER

### **DESCRIPTION**

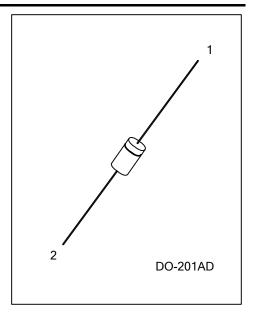
The UTC 1N5408G is a glass passivated silicon rectifier, it uses UTC's advanced technology to provide customers with high forward surge current and low reverse leakage, etc.

# **FEATURES**

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

## **SYMBOL**

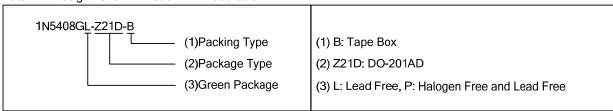




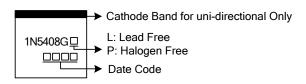
# ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment		Dooking	
Lead Free	Halogen Free	Package	1	2	Packing	
1N5408GL-Z21D-B	1N5408GP-Z21D-B	DO-201AD	K	Α	Tape Box	

Note: Pin Assignment: A: Anode K: Cathode



# **MARKING**



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# 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 <sub>A</sub> =105°C)	Ιο	3.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FSM</sub>	200	Α
Junction Temperature	TJ	-55~+150	°C
Storage Temperature	T <sub>STG</sub>	-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)	$\theta_{JA}$	20	°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%.

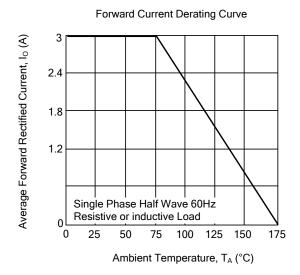
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	$V_{F}$	I <sub>F</sub> =3.0A			1.2	V
DC Reverse Current at Rated DC Blocking		T <sub>A</sub> =25°C			5.0	μΑ
Voltage	IR	T <sub>A</sub> =100°C			100	μA
Junction Capacitance (Note 1)	CJ			30		pF

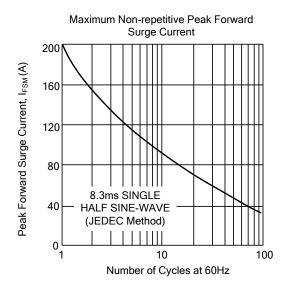
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

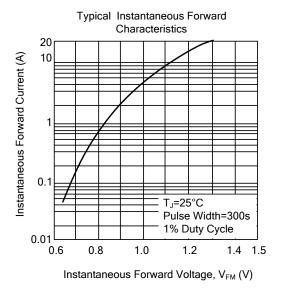
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

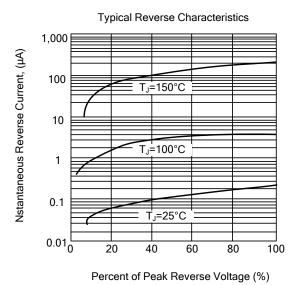
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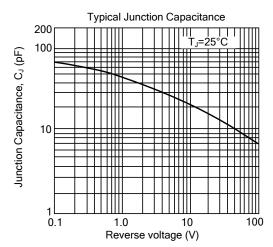
# TYPICAL CHARACTERISTICS

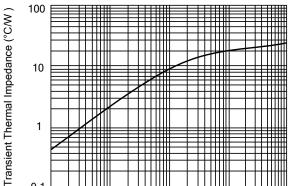












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