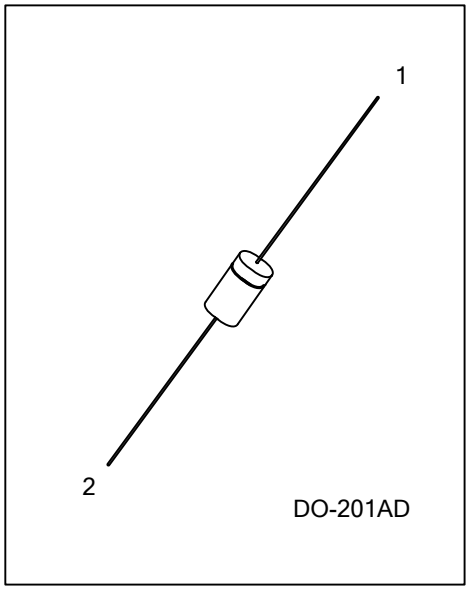
1N5408G

DIODE

GLASS PASSIVATED SILICON RECTIFIER



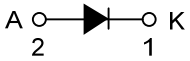
■ DESCRIPTION

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



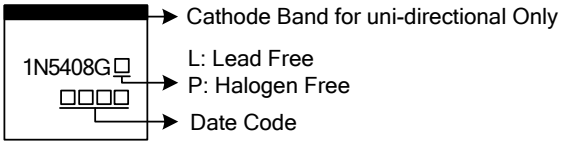
■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

1N5408GL-Z21D-B (1)Packing Type (2)Package Type (3)Green Package	(1) B: Tape Box (2) Z21D: DO-201AD (3) L: Lead Free, P: Halogen Free and Lead Free

■ 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°C)	I_O	3.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	200	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)	θ_{JA}	20	°C/W

■ ELECTRICAL CHARACTERISTICS

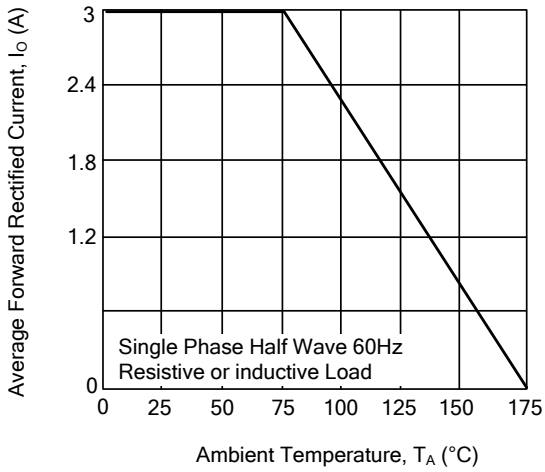
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	I_F=3.0A			1.2	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	T_A=25°C			5.0	μA
		T_A=100°C			100	μA
Junction Capacitance (Note 1)	C_J			30		pF

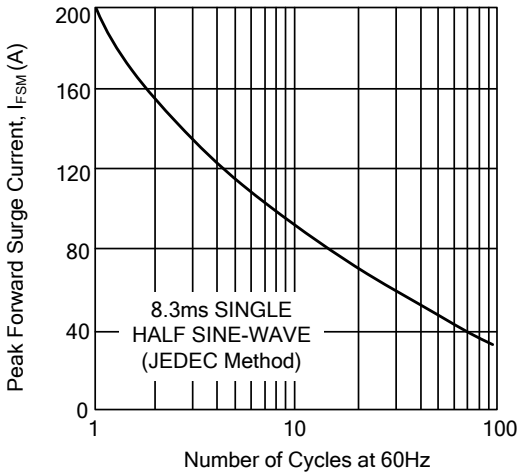
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance from junction to ambient at 0.375” (9.5mm) lead length, P.C.B. mounted

■ TYPICAL CHARACTERISTICS

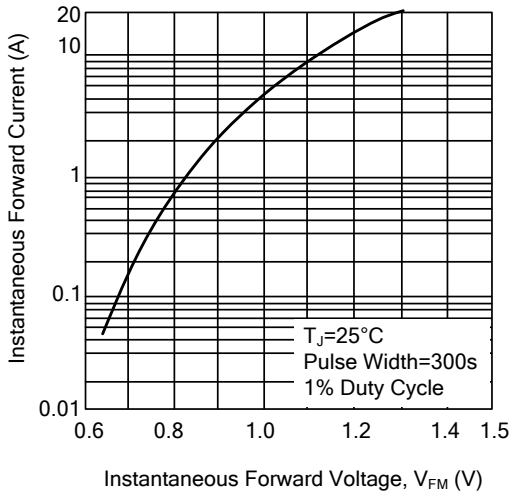
Forward Current Derating Curve



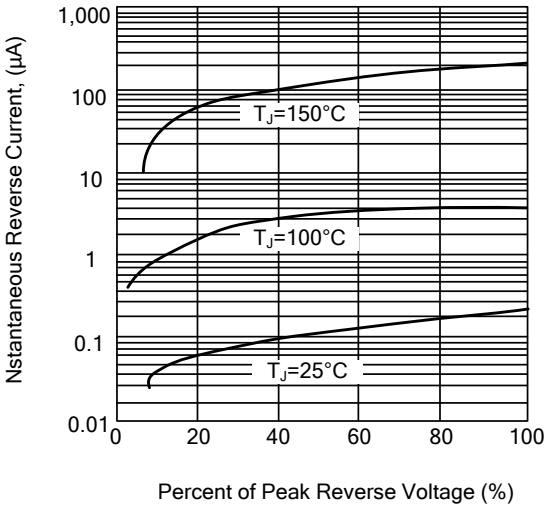
Maximum Non-repetitive Peak Forward Surge Current



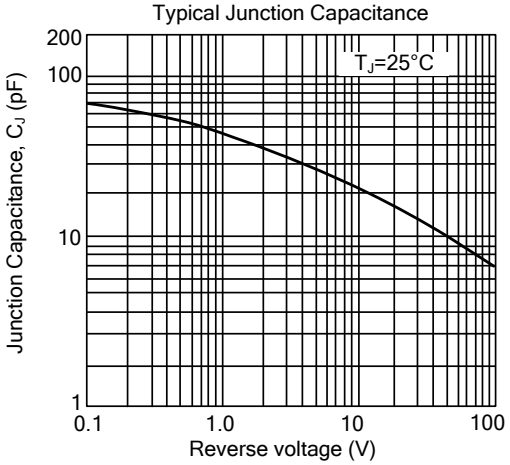
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Impedance