

1N5406G

GLASS PASSIVATED SILICON RECTIFIER

DESCRIPTION

The UTC 1N5406G 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





ORDERING INFORMATION						
Ordering Number		Daakaga	Pin Assignment		Packing	
Lead Free	Halogen Free	– Package	1	2	Facking	
1N5406GL-Z21D-B	1N5406GP-Z21D-B	DO-201AD	К	А	Таре Вох	
Note: Pin Assignment: A: Anoc	le K: Cathode					

1N5406GL-Z21D-B		
(1)Packing Type	(1) B: Tape Box	
(2)Package Type	(2) Z21D: DO-201AD	
(3)Green Package	(3) L: Lead Free, P: Halogen Free and Lead Free	

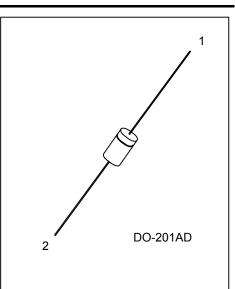
MARKING



Cathode Band for uni-directional Only

L: Lead Free

- ▶ P: Halogen Free
- Date Code



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		600	V
Repetitive Peak Reverse Voltage		600	V
RMS Voltage		420	V
DC Blocking Voltage	V _{DC}	600	V
Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A=75^{\circ}C$	I _(AV)	3.0	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200	А
Junction Temperature	TJ	-65~+175	°C
Storage Temperature	T _{STG}	-65~+175	°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%.

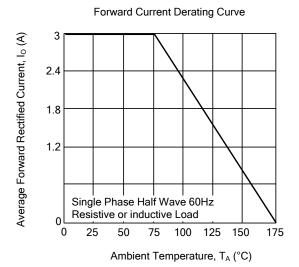
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V _F	I _F =3.0A			1.2	V
DC Reverse Current at Rated DC Blocking		T _A =25°C			5.0	μA
Voltage	IR	T _A =100°C			100	μA
Junction Capacitance (Note 1)	CJ			30.0		рF

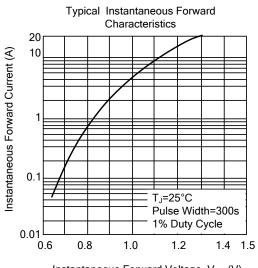
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

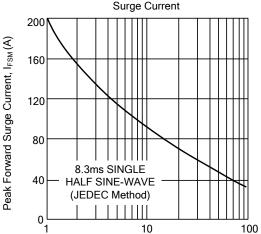


TYPICAL CHARACTERISTICS

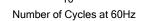




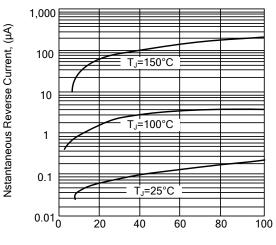
Instantaneous Forward Voltage, V_{FM} (V)



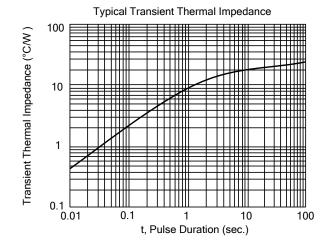
Maximum Non-repetitive Peak Forward



Typical Reverse Characteristics



Percent of Peak Reverse Voltage (%)



Typical Junction Capacitance



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