

1N4004G

GLASS PASSIVATED SILICON RECTIFIER

DESCRIPTION

The UTC 1N4004G 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 INFO	RMATION				
Orderin	Ordering Number		Pin Assignment		Decking
Lead Free	Halogen Free	Package	1	2	Packing
1N4004GL-SMA-R	1N4004GP-SMA-R	SMA	K	А	Tape Reel
1N4004GL-Z41-B	1N4004GP-Z41-B	DO-41	K	А	Таре Вох
1N4004GL-Z41-R	1N4004GP-Z41-R	DO-41	к	А	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

(3)Green Package (3) L: Lead Free, P: Halogen Free and Lead Free		(1) Lotary (2)Package Type	(1) B: Tape Box, R: Tape Reel (2) SMA: SMA, Z41: DO-41 (3) L: Lead Free, P: Halogen Free and Lead Free
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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}	400	V
Repetitive Peak Reverse Voltage	V _{RRM}	400	V
DC Blocking Voltage	V _R	400	V
Average Rectified Output Current (T _A =75°C)	lo	1.0	А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	30	А
Junction Temperature	TJ	-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
lunction to Ambient (Note 2)	SMA	0	95	°C/W
Junction to Ambient (Note 2)	DO-41	θ _{JA}	50	°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 _{FM}	I _F =1.0A			1.1	V
DC Reverse Current at Rated DC Blocking		T _A =25°C			5.0	μA
Voltage	IRM	T _A =100°C			50	μA
Junction Capacitance (Note 1)	CJ			15		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.



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TYPICAL CHARACTERISTICS













Typical Reverse Characteristics



Percent of Peak Reverse Voltage (%)



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