UTC UNISONIC TECHNOLOGIES CO., LTD

SF36G **DIODE**

GLASS PASSIVATED SUPER FAST RECOVERY RECTIFIER

DESCRIPTION

The UTC SF36G is a glass passivated super fast rectifier, it uses UTC's advanced technology to provide customers with high surge current and low forward voltage drop, etc.

FEATURES

- * Low forward voltage drop
- * High surge current capability
- * High current capability

SYMBOL

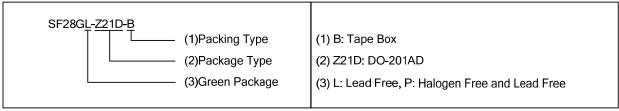
* High reliability



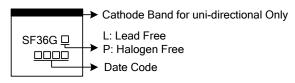
ORDERING INFORMATION

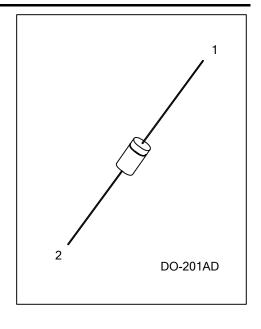
Ordering Number		Dookogo	Pin Assignment		Dooking
Lead Free	Halogen Free	Package	1	2	Packing
SF36GL-Z21D-B	SF36GP-Z21D-B	DO-201AD	K	Α	Tape Box

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}	400	٧
Repetitive Peak Reverse Voltage		400	٧
Maximum RMS Reverse Voltage	V_{RMS}	280	٧
DC Blocking Voltage	V_R	400	٧
Average Rectified Output Current (T _A =55°C)	Ιο	3.0	Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	100	Α
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	SYMBOL RATINGS	
Junction to Ambient (Note 2)	θ_{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%.

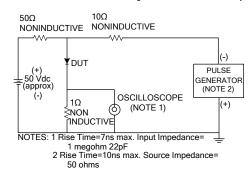
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{FM}	I _F =3.0A			1.25	V
DC Reverse Current at Rated DC Blocking		T _A =25°C			5.0	μΑ
Voltage	I _{RM}	T _A =100°C			50	μΑ
Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A			35	ns
Junction Capacitance (Note 1)	CJ			30		pF

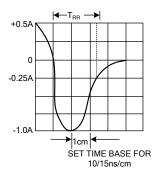
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

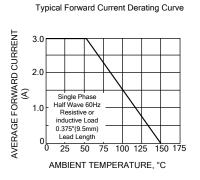
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted.

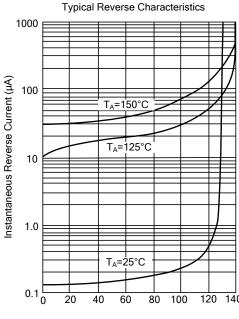
■ TYPICAL CHARACTERISTICS

Test Circuit Diagram And Reverse Recovery Time Characteristics

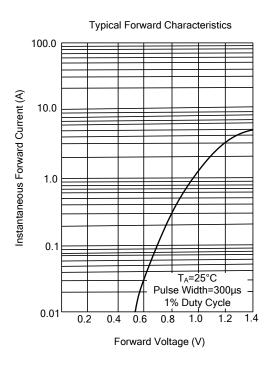


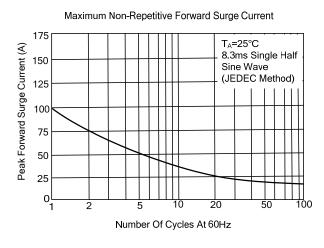


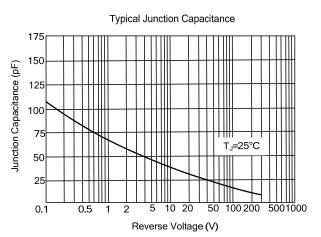












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