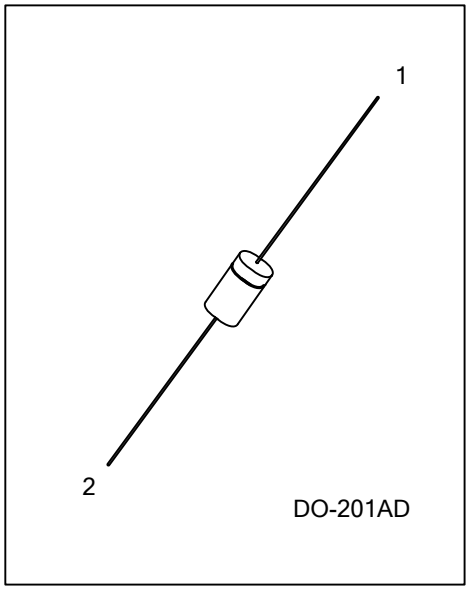
SF36G

DIODE

GLASS PASSIVATED SUPER FAST RECOVERY RECTIFIER



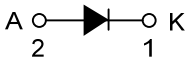
■ DESCRIPTION

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
* High reliability

■ SYMBOL



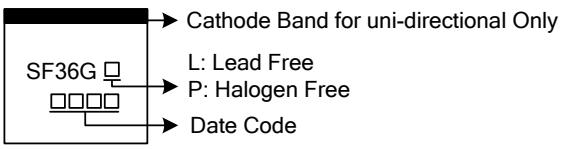
■ ORDERING INFORMATION

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

Note: Pin Assignment: A: Anode K: Cathode

SF28GL-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



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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	V
Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Reverse Voltage	V_{RMS}	280	V
DC Blocking Voltage	V_R	400	V
Average Rectified Output Current (T_A=55°C)	I_O	3.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	100	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}	30	°C/W

■ ELECTRICAL CHARACTERISTICS

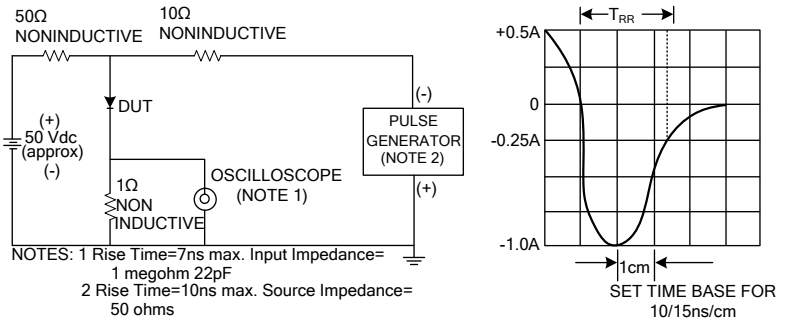
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

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 Voltage	I_{RM}	T_A=25°C			5.0	μA
		T_A=100°C			50	μA
Reverse Recovery Time	t_{rr}	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A			35	ns
Junction Capacitance (Note 1)	C_J			30		pF

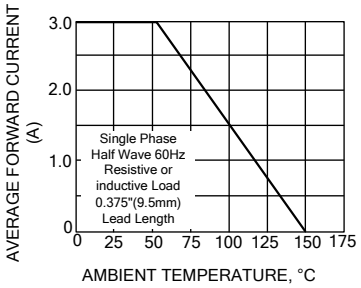
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance from junction to ambient at 0.375” (9.5mm) lead length, P.C.B. mounted.

■ TYPICAL CHARACTERISTICS

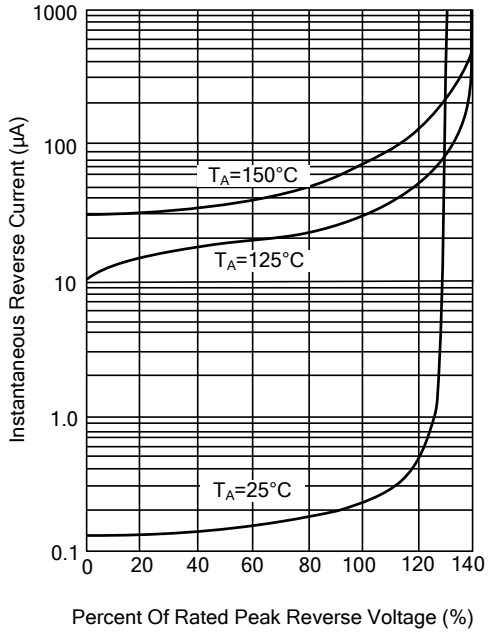
Test Circuit Diagram And Reverse Recovery Time Characteristics



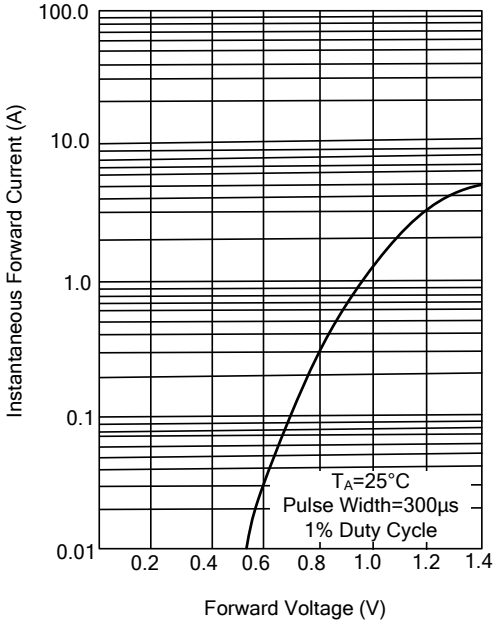
Typical Forward Current Derating Curve



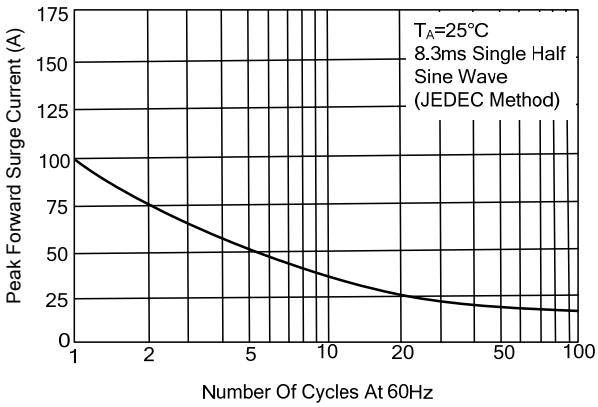
Typical Reverse Characteristics



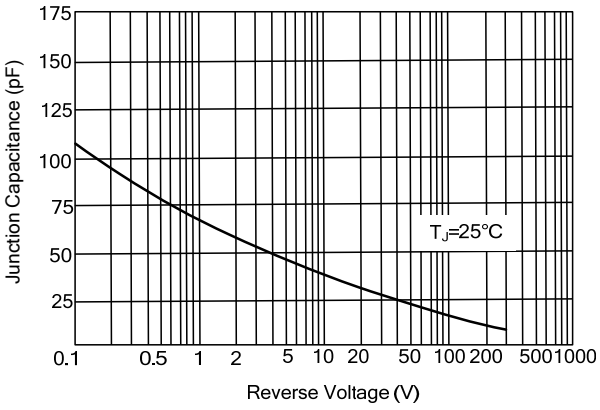
Typical Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



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