



SF26G

DIODE

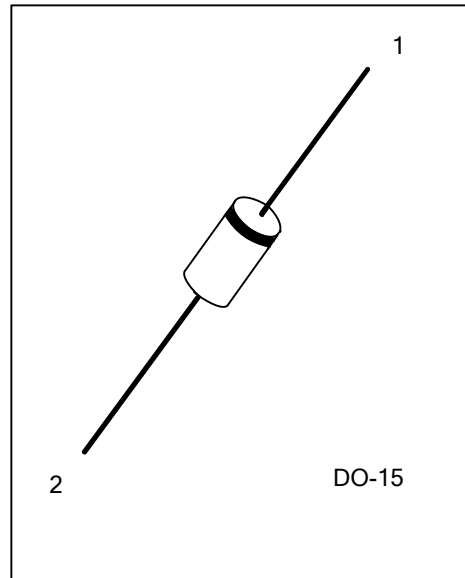
GLASS PASSIVATED SUPER FAST RECOVERY RECTIFIER

DESCRIPTION

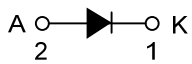
The UTC **SF26G** is a glass passivated super fast rectifier, it uses UTC's advanced technology to provide customers with high surge current and low forward voltage drop, etc.

FEATURES

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



SYMBOL



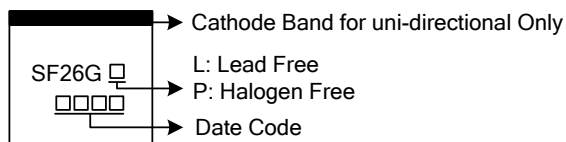
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
SF26GL-Z15-B	SF26GP-Z15-B	DO-15	K	A	Tape Box

Note: Pin Assignment: A: Anode K: Cathode

<p>SF26GL-Z15-B</p> <ul style="list-style-type: none"> (1)Packing Type (2)Package Type (3)Green Package 	<ul style="list-style-type: none"> (1) B: Tape Box (2) Z15: DO-15 (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
Maximum RMS Reverse Voltage	V_{RMS}	280	V
DC Blocking Voltage	V_R	400	V
Average Rectified Output Current ($T_A=55^\circ\text{C}$)	I_O	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	50	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}	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%.

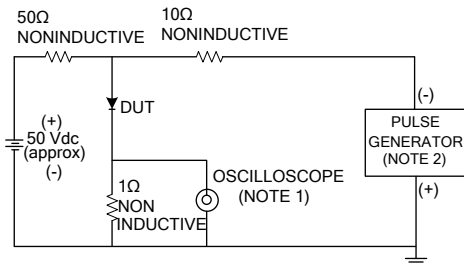
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_{FM}	$I_F=2.0\text{A}$			1.3	V
DC Reverse Current at Rated DC Blocking Voltage	I_{RM}	$T_A=25^\circ\text{C}$			5.0	μA
		$T_A=100^\circ\text{C}$			50	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$			35	ns
Junction Capacitance (Note 1)	C_J			30		pF

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

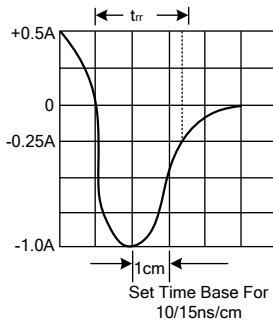
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted.

TYPICAL CHARACTERISTICS

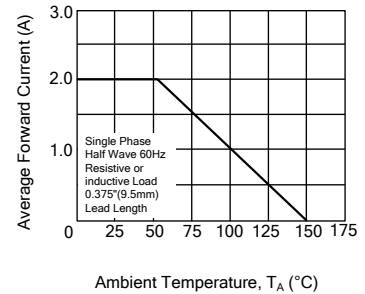
Test Circuit Diagram And Reverse Recovery Time Characteristics



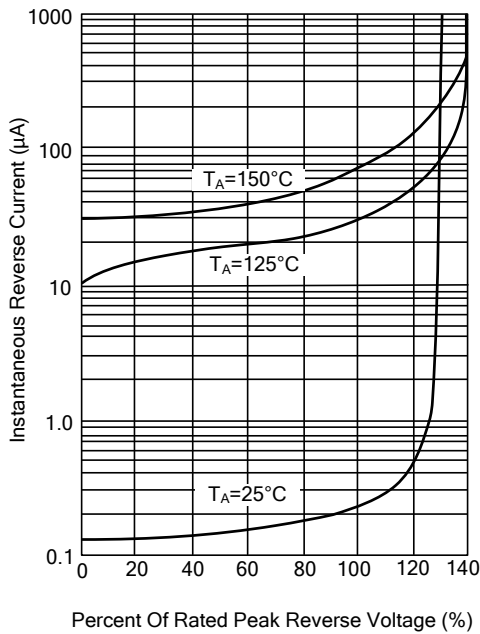
Notes: 1 Rise Time=7ns max. Input Impedance=1 megohm 22pF
2 Rise Time=10ns max. Source Impedance=50 ohms



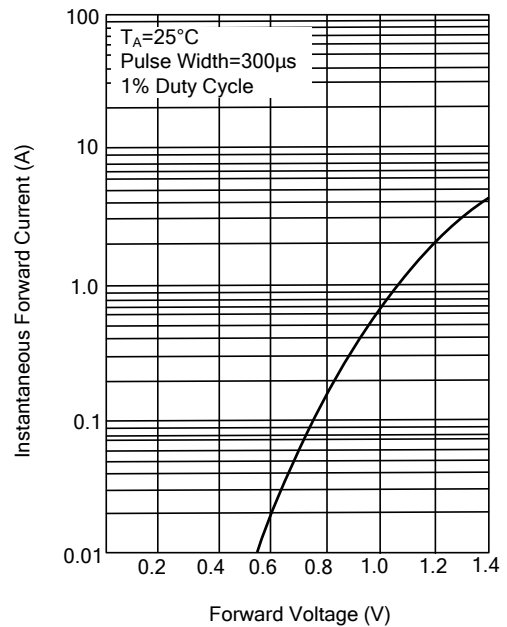
Typical Forward Current Derating Curve



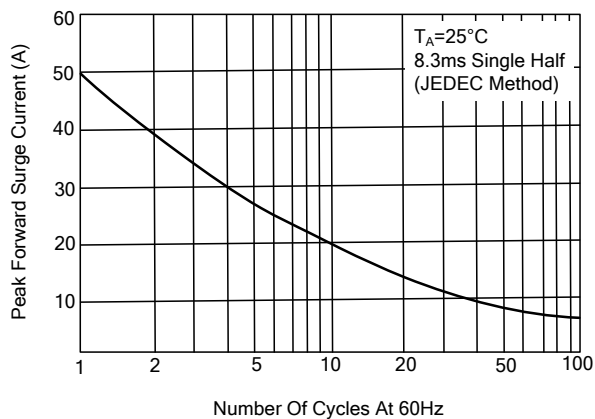
Typical Reverse Characteristics



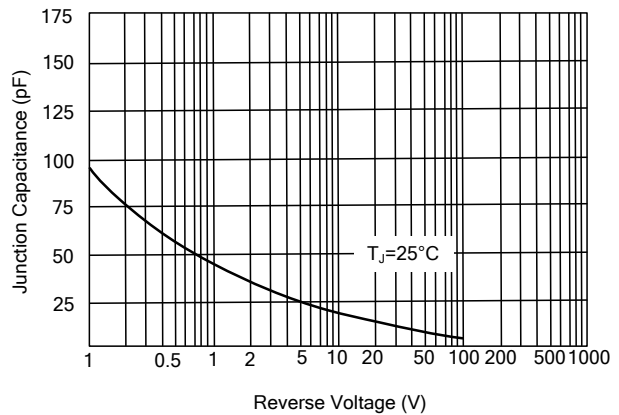
Typical Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



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