



## SF26G

DIODE

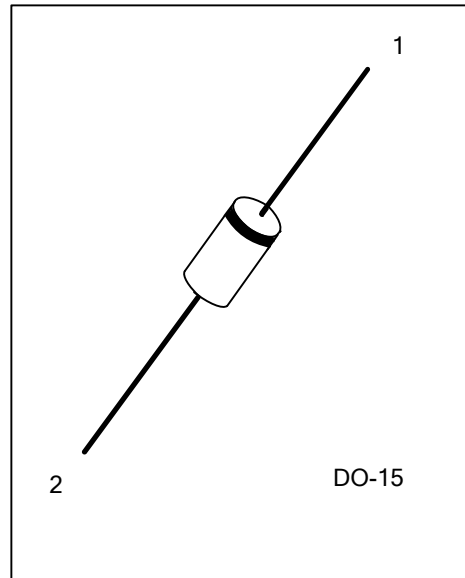
### GLASS PASSIVATED SUPER FAST RECOVERY RECTIFIER

#### DESCRIPTION

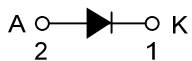
The UTC **SF26G** is a glass passivated super fast rectifier, it uses UTC's advanced technology to provide customers with high surge current and low forward voltage drop, etc.

#### FEATURES

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



#### SYMBOL



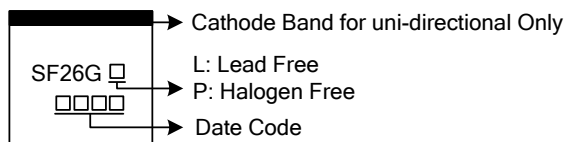
#### ORDERING INFORMATION

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"> <li>(1)Packing Type</li> <li>(2)Package Type</li> <li>(3)Green Package</li> </ul>	<ul style="list-style-type: none"> <li>(1) B: Tape Box</li> <li>(2) Z15: DO-15</li> <li>(3) L: Lead Free, P: Halogen Free and Lead Free</li> </ul>
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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)	$\theta_{JA}$	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%.

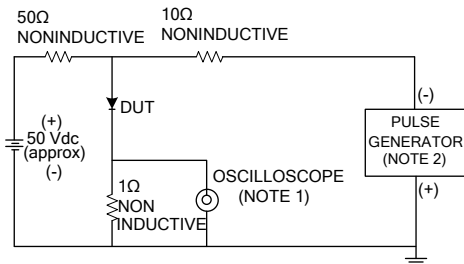
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	$V_{FM}$	$I_F=2.0\text{A}$			1.3	V
DC Reverse Current at Rated DC Blocking Voltage	$I_{RM}$	$T_A=25^\circ\text{C}$			5.0	$\mu\text{A}$
		$T_A=100^\circ\text{C}$			50	$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_F=0.5\text{A},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

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

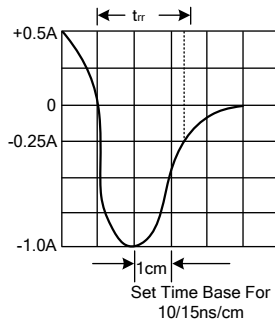
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted.

## TYPICAL CHARACTERISTICS

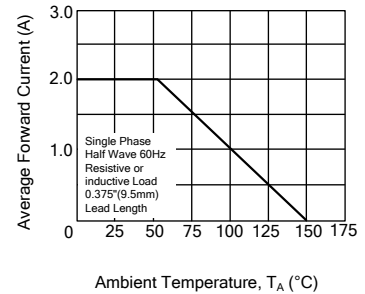
Test Circuit Diagram And Reverse Recovery Time Characteristics



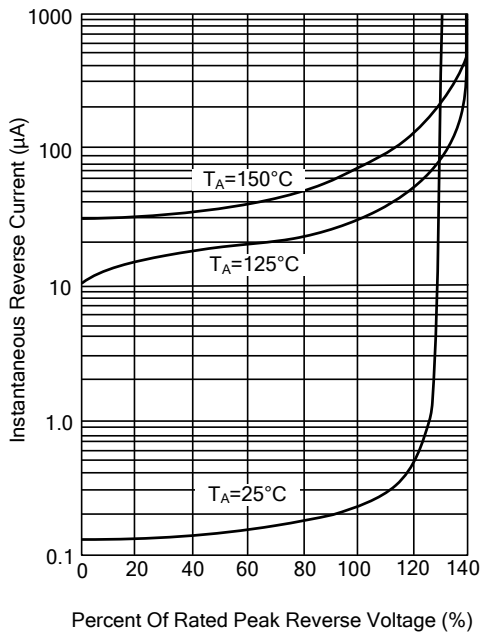
Notes: 1 Rise Time=7ns max. Input Impedance=1 megohm 22pF  
2 Rise Time=10ns max. Source Impedance=50 ohms



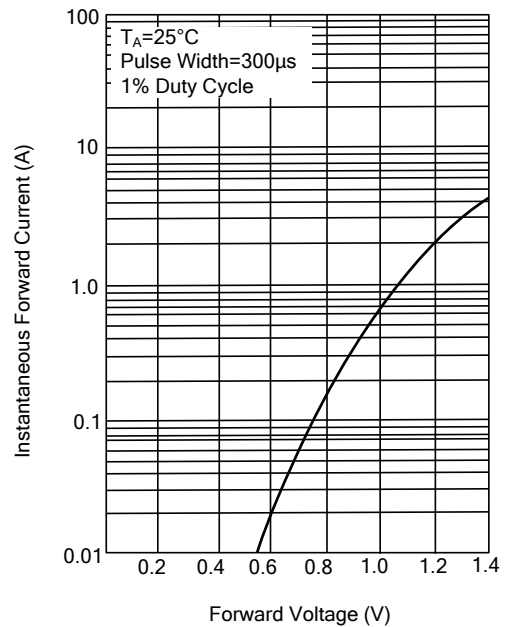
Typical Forward Current Derating Curve



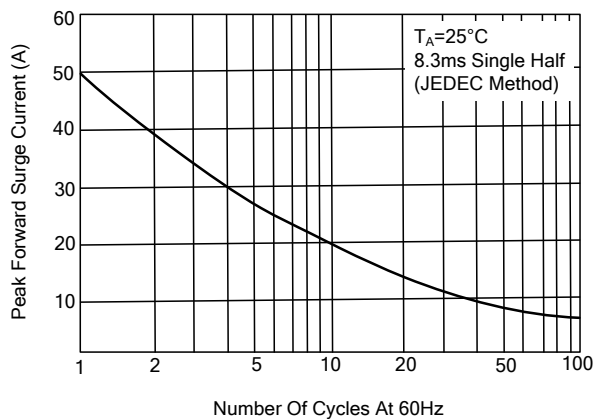
Typical Reverse Characteristics



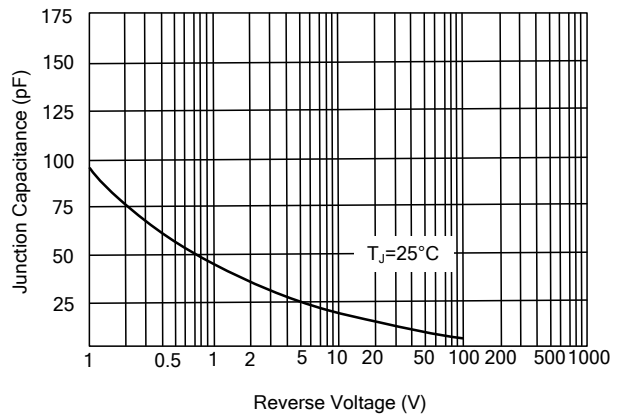
Typical Forward Characteristics



Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



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