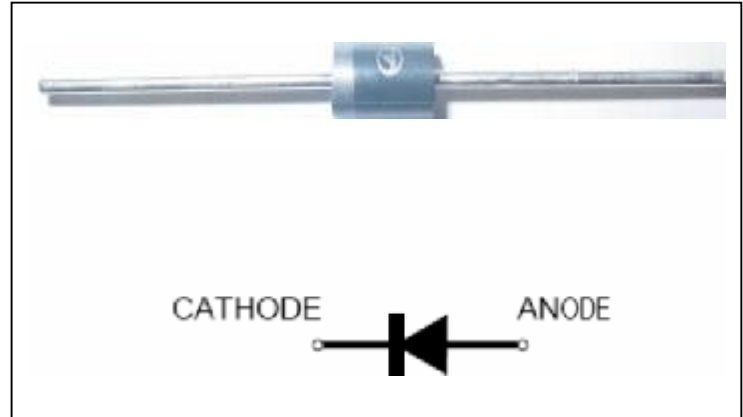


# SF61G thru SF68G

**Glass Passivated Junction Ultra Fast Rectifiers**  
**Reverse Voltage 50 to 600V Forward Current 6.0A**

## FEATURES

- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* High temperature metallurgically bonded construction
- \* Glass passivated chip
- \* Capable of meeting environmental standards of MIL-S-19500
- \* For use in high frequency rectifier circuits
- \* Fast switching for high efficiency
- \* High temperature soldering guaranteed: 260°C/10 seconds
- \* 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



## Mechanical Data

**Case:** JEDEC DO-201AD, molded plastic

**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.038 oz., 1.03 g

**Handling precaution:** None

### 1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF68G	Unit
Marking spec		SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF68G	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	600	V
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	420	V
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	600	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 55^\circ\text{C}$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150							A
Maximum DC blocking voltage temperature	$T_A$	150							°C
Typical thermal resistance (Note 2)	$R_{\theta JA}$	20							°C/W
Operating junction temperature range	$T_J$	-50 to +150							°C
Storage temperature range	$T_{STG}$	-50 to +150							°C

### Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF68G	Unit
Maximum instantaneous forward voltage at 6.0A	$V_F$	0.95			1.25		1.7		V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	$I_R$				10		100		$\mu\text{A}$
Typical reverse recovery time (Note 1)	$t_{rr}$				35				ns
Typical junction capacitance at 4.0V, 1MHz	$C_J$	50			30				PF

NOTES:

1.  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $IRR = 0.25\text{A}$

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

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## 2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

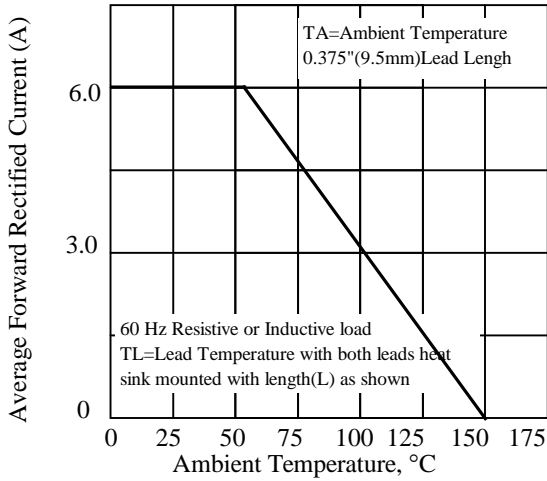


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

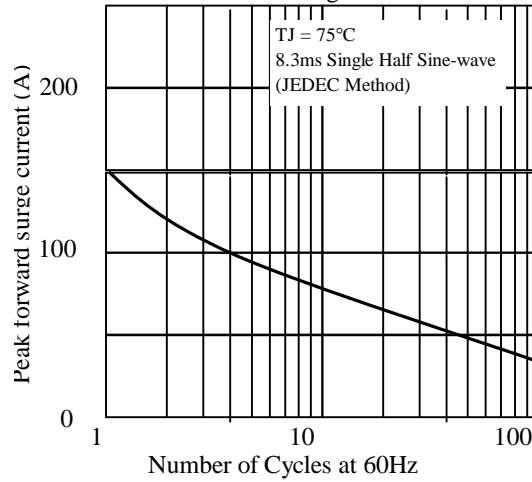


Fig. 3 - Typical Instantaneous Forward Characteristics

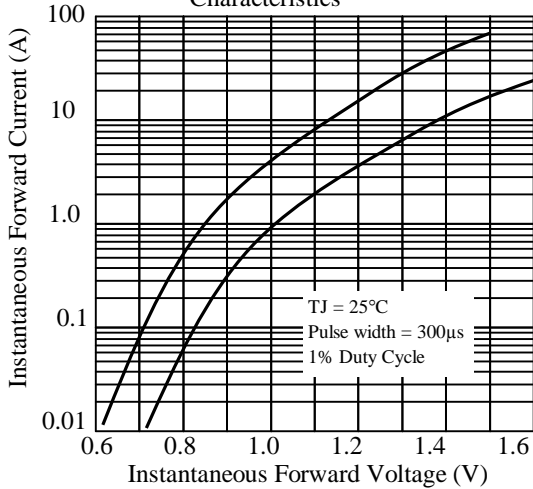


Fig. 4 - Typical Reverse Characteristics

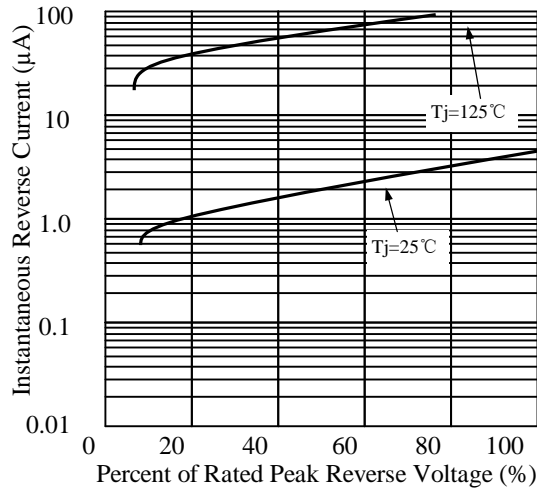


Fig. 5 - typical transient thermal impedance

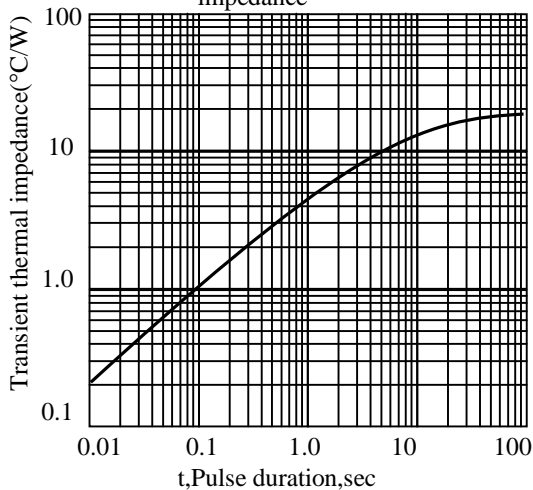
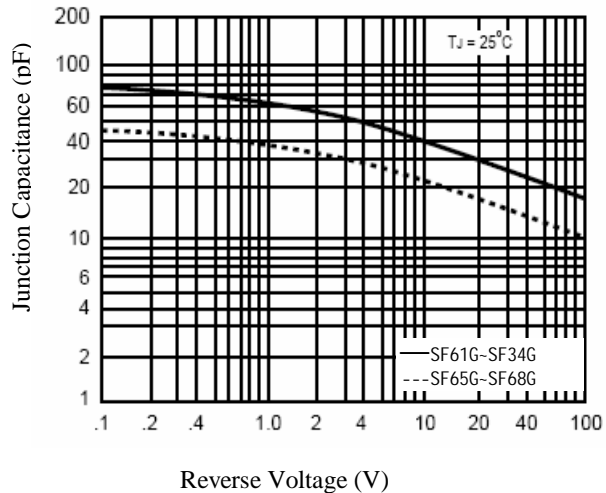
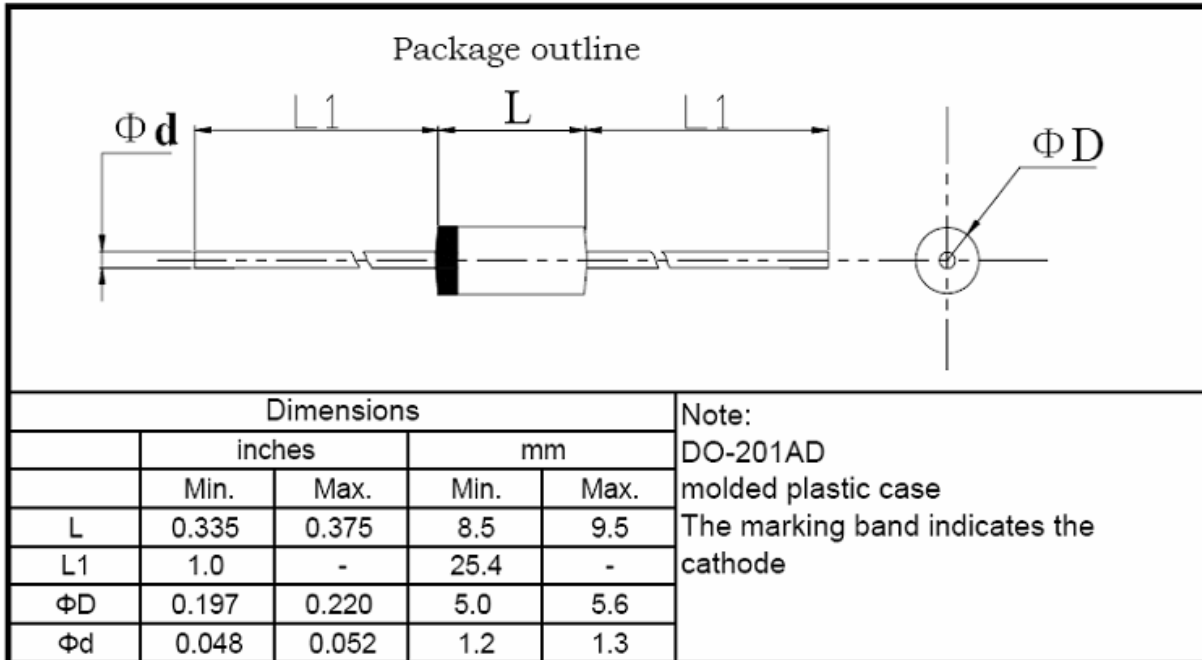


Fig. 6 - Typical Junction Capacitance



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### 3. dimension:



单击下面可查看定价，库存，交付和生命周期等信息

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