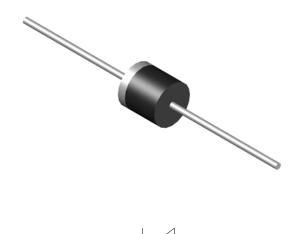




Super Fast Recovery Rectifier



Features

- Ultrafast reverse recovery time
- Low leakage current
- Low switching losses, high efficiency
- High forward surge capability
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer and telecommunication.

Mechanical Data

• Package: R-6

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Color band denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G
Device marking code			SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G
Repetitive Peak Reverse Voltage	VRRM	V	50	100	150	200	300	400	500	600
Average Forward Current @60Hz sine wave, Resistance load, Ta =65°C	I _{F(AV)}	Α	6.0							
Surge(Non-repetitive)Forward Current @ 60Hz Half-sine wave,1 cycle, Ta=25°C	IFSM	А	150							
Storage Temperature	Tstg	$^{\circ}$	-55 ~+150							
Junction Temperature	Tj	$^{\circ}$	-55~+150							

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=6.0A	0.95		1.3		1.7			
Maximum DC reverse current at rated DC blocking voltage per	IR		T _a =25℃	5							
diode	ır.	μA	T _a =125℃	150							
Reverse Recovery time	t _r	ns	I _F =0.5A I _R =1A I _{RR} =0.25A	35							
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	100			80				

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SF61G	SF62G	SF63G	SF64G	SF65G	SF66G	SF67G	SF68G
Thermal Resistance	RθJ-A	°C/W	12							

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SF61G~SF68G	D1	Approximate 1.95	500	500	5000	Таре
SF61G~SF68G	C1	Approximate 1.95	100	100	5000	Bulk

■ Characteristics(Typical)

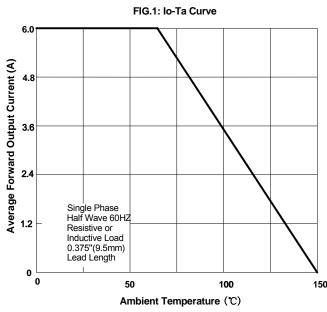


FIG.3: Forward Voltage

SF65G-SF66G

1.4

Instantaneous Forward Voltage (V)

SF67G-SF68G

TJ=25℃

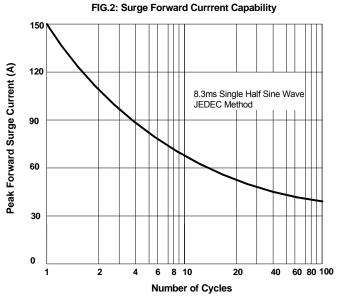
1.6

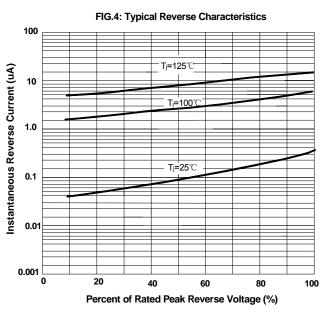
1% Duty Cycle

1.8

2.0

150 Pulse width=300us





8.0

1.0

100

10

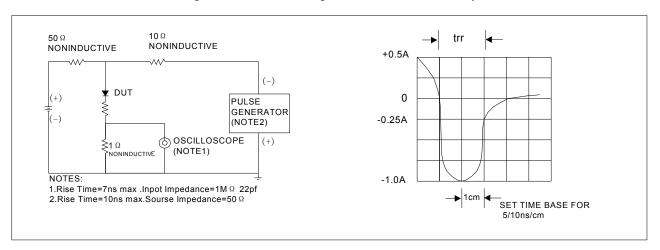
1.0

0.01 0.6

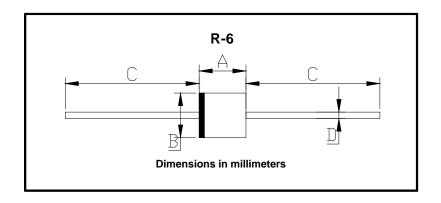
Instantaneous Forward Current (A)



FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



R-6						
Dim	Min	Max				
Α	8.60	9.10				
В	8.60	9.10				
С	25.4	/				
D	1.20	1.32				



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