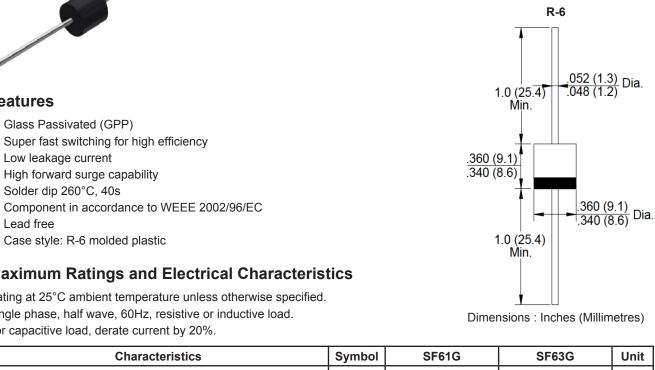
#### 09/08/19 V1.0

## **Super Fast Recovery Rectifier Diodes** VRRM - 50 Volts & 150 Volts, 6A

# **multicomp** PRO

RoHS

Compliant



Characteristics	Symbol	SF61G	SF63G	Unit
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	150	V
Maximum RMS Voltage	Vrms	35	105	
Maximum DC Blocking Voltage	VDC	50	150	
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length @ $T_A = 55^{\circ}C$	l(AV)	6		A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150		A
Maximum Instantaneous Forward Voltage at 6A	VF	0.95		V
Max. DC Reverse Current @ TJ = 25°C Rated DC Blocking Voltage @ TJ = 100°C	lr	5 50		μA
Maximum Reverse Recovery Time (Note 1)	Trr	35		nS
Typical Junction Capacitance (Note 2)	Сл	120		pF
Typical Thermal Resistance (Note 3)	Reja	30		°C/W
Operating Junction Temperature Range	TJ	-65 to +150		°C
Storage Temperature Range	Тѕтс			

#### Notes:

1. Reverse recovery condition IF = 0.5A, IR = 1A, IRR = 0.25A

2. Measured at 1 MHz and applied reverse voltage of 4V DC

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

4. The typical data above is for reference only

Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands



Dimensions : Inches (Millimetres)



## Features

- .
- •
- - Component in accordance to WEEE 2002/96/EC
- Lead free

•

Case style: R-6 molded plastic

## Maximum Ratings and Electrical Characteristics

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

## multicomp PRO

### **Rating and Characteristic Curves**

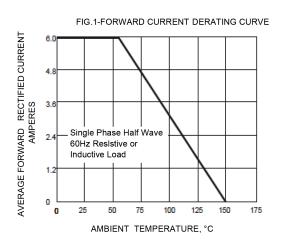
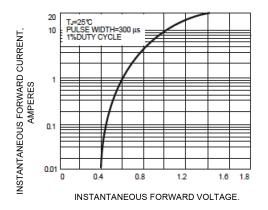
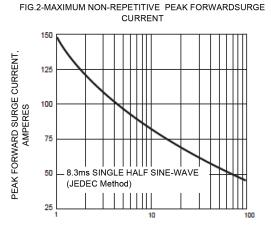


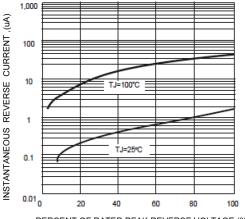
FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





NUMBER OF CYCLETS AT 60Hz

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)

#### **Part Number Table**

Description	Part Number	
Rectifier Diode, Super Fast, 50V, 6A, R-6	SF61G	
Rectifier Diode, Super Fast, 150V, 6A, R-6	SF63G	

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