

## SF61 THRU SF68

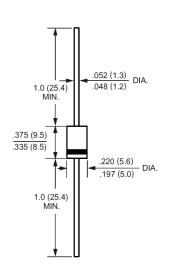
### Superfast Recovery Rectitiers

#### **FEATURES**

- · High surge capability
- $\cdot$  Low forward voltage, high current capability
- $\cdot$  Hermetically sealed
- · Superfast recovery times
- · Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.

#### **MECHANICAL DATA**

Case: Molded plastic, DO-201AD Epoxy: UL 94V-O rate flame retardant Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end Mounting position: Any Weight: 0.04ounce, 1.1gram



DO-201AD(DO-27)

Dimensions in inches and (millimeters)

州市钜兴电子

**GUANGZHOU JUXING ELECTRONICS CO., LTD** 

- 有限公

#### Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave,  $60H_z$ , resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SF61	SF62	SF63	SF64	SF65	SF66	SF68	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current	Т	5.0							Amp
.375" (9.5mm) Lead Length at T <sub>A</sub> =55	$I_{(AV)}$								
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I <sub>FSM</sub> 150							Amp	
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 5.0A DC and 25	V <sub>F</sub>	0.95 1.25					25	1.7	Volts
Maximum Reverse Current at T <sub>A</sub> =25	т	5.0 500							uAmp
at Rated DC Blocking Voltage T <sub>A</sub> =100	I <sub>R</sub>								
Typical Junction Capacitance (Note 1)	CJ	45							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	25							/W
Maximum Reverse Recovery Time (Note 3)	T <sub>RR</sub>	35 50							nS
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +125							
Storage Temperature Range	Tstg	-55 to +150							

#### NOTES:

1- Measured at 1  $MH_Z$  and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

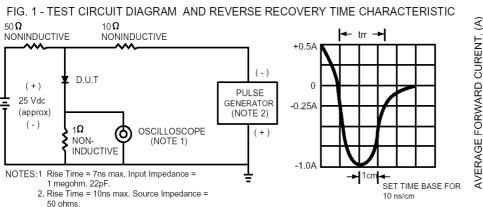
3- Reverse Recovery Test Conditions :  $I_{F} {=} .5 A$  ,  $I_{R} {=} 1 A$  ,  $I_{RR} {=} .25 A.$ 



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#### **RATINGS AND CHARACTERISTIC CURVES**



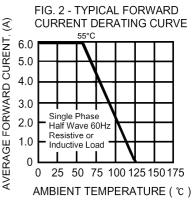


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

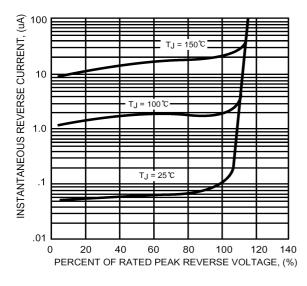


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

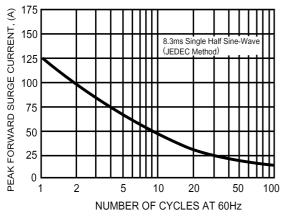


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

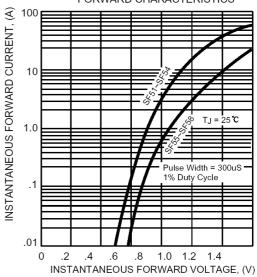


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

