

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

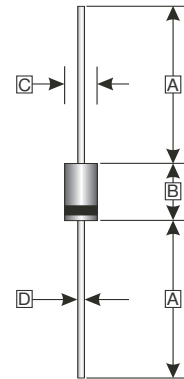
FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Good for switching mode application

PACKAGING INFORMATION

- Glass Passivated
- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any

DO-27



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	4.80	5.60
D	1.20	1.32

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Part Number			Unit
		SF53GR	SF54GR	SF55GR	
Maximum Recurrent Reverse Voltage	V _{RRM}	200	400	600	V
Average Forward Current @ 60Hz Half-sine wave, Resistance load, T _A (FIG 1)	I _{F(AV)}	5			A
Surge(Non-repetitive)Forward Current @60Hz Half-sine wave, 1 cycle, T _A =25 °C	I _{FSM}	150			A
Junction Temperature	T _J	-50~+150			°C
Storage Temperature Range	T _{STG}	-50~+150			°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Part Number			Unit
		SF53GR	SF54GR	SF55GR	
Peak Forward Voltage @ I _{FM} =5A	V _{FM}	0.95	1.3	1.7	V
Peak Reverse Current	T _A =25°C	5			µA
	T _A =125°C	150			
Maximum Reverse Recovery Time ¹	T _{RR}	35			nS
Typical Thermal Resistance	R _{θJC}	15			°C / W
Typical Junction Capacitance ²	C _J	100	80		pF

Note:

1. I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. f=1MHz and applied 4V DC reverse voltage

RATINGS AND CHARACTERISTIC CURVES

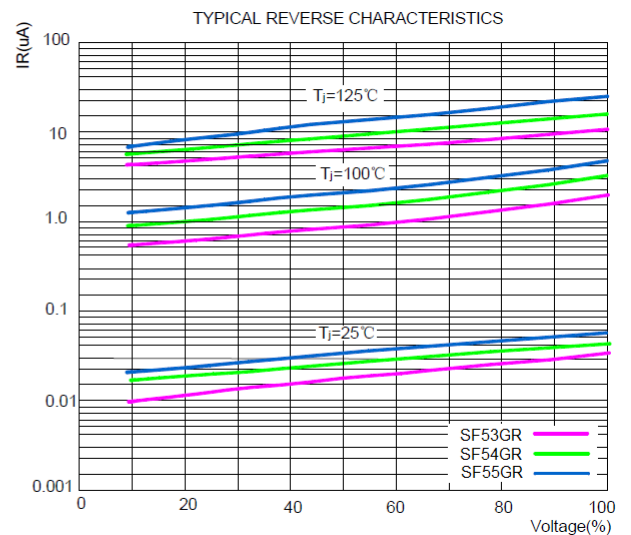
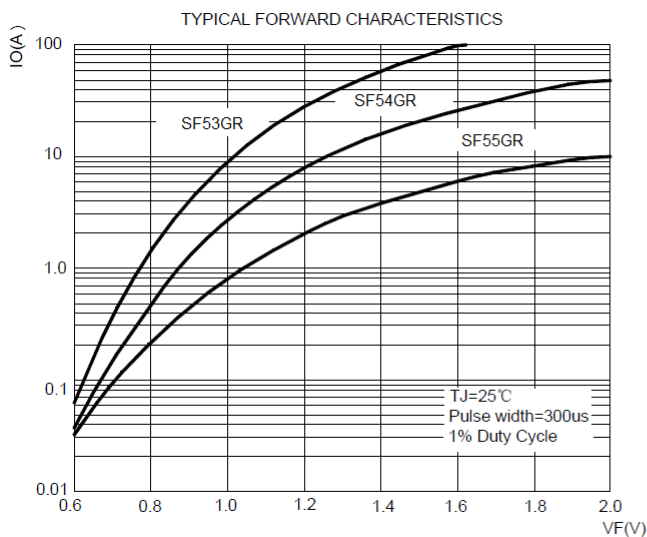
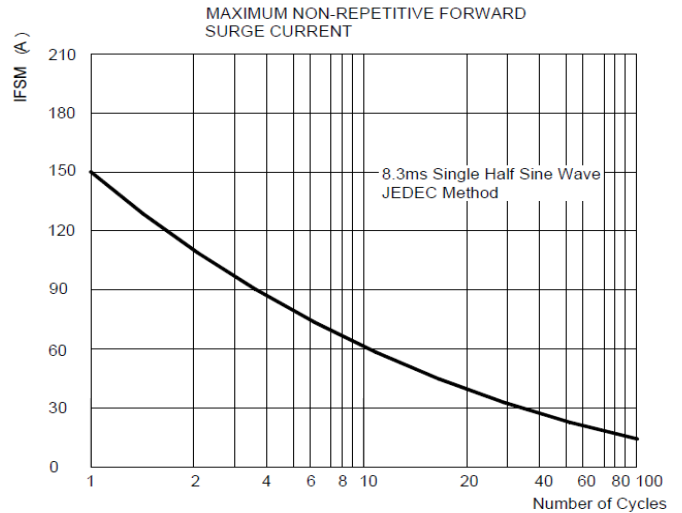
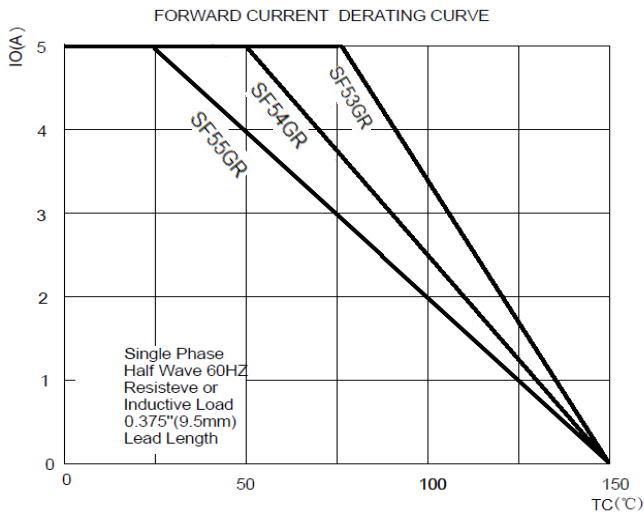


Diagram of circuit and Testing wave form of reverse recovery time

