



Micro Commercial Components  
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# SF51G THRU SF58G

## Features

- Low power loss, high efficiency
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Super fast switching speed

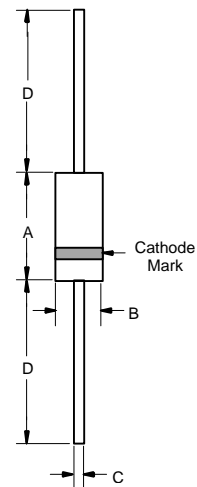
**5 Amp High  
Efficiency Glass  
Passivated Rectifier  
50 to 600 Volts**

## Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF51G	SF51G	50V	35V	50V
SF52G	SF52G	100V	70V	100V
SF54G	SF54G	200V	140V	200V
SF55G	SF55G	300V	210V	300V
SF56G	SF56G	400V	280V	400V
SF58G	SF58G	600V	420V	600V

## DO-201AD



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5 A	$T_A = 55^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF51G-55G SF56G SF58G	$V_F$	0.95V 1.27V 1.75V	$I_{FM} = 5.0\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5 $\mu\text{A}$ 50 $\mu\text{A}$	$T_A = 25^\circ\text{C}$ $T_A = 150^\circ\text{C}$
Maximum Reverse Recovery Time	$T_{rr}$	35.0nS	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$
Typical Junction Capacitance SF51G-55G SF56G-58G	$C_J$	50pF 30pF	Measured at 1.0MHz, $V_R=4.0\text{V}$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

\*Pulse Test: Pulse Width 300 $\mu\text{sec}$ , Duty Cycle 1%