Micro Commercial Components

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SF51G THRU SF58G

5 Amp High Efficiency Glass Passivated Rectifier 50 to 600 Volts

Features

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

Maximum Ratings

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

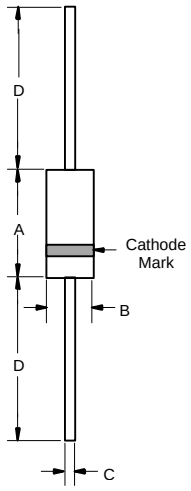
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF51G	SF51G	50V	35V	50V
SF52G	SF52G	100V	70V	100V
SF54G	SF54G	200V	140V	200V
SF55G	SF55G	300V	210V	300V
SF56G	SF56G	400V	280V	400V
SF58G	SF58G	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	5 A	T_A = 55°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} = 5.0A; T_A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5 µA 50 µA	T_A = 25°C T_A = 150°C
Maximum Reverse Recovery Time	T_{rr}	35.0nS	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
Typical Junction Capacitance SF51G~55G SF56G~58G	C_J	50pF 30pF	Measured at 1.0MHz, V_R=4.0V

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

DO-201AD



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
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	---	