Micro Commercial Components

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SF41G THRU SF48G

4 Amp High Efficiency Glass Passivated Rectifier 50 to 600 Volts

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Leakage and Low power loss, Low Forward Voltage Drop
- High Current Capability,high efficiency
- Super fast switching speed

Maximum Ratings

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

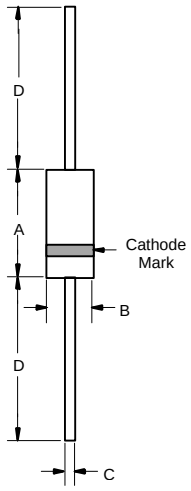
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SF41G	SF41G	50V	35V	50V
SF42G	SF42G	100V	70V	100V
SF44G	SF44G	200V	140V	200V
SF45G	SF45G	300V	210V	300V
SF46G	SF46G	400V	280V	400V
SF48G	SF48G	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4 A	T_A = 55°C
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SF41G-45G SF46G SF48G	V_F	0.95V 1.27V 1.75V	I_{FM} = 4.0A; 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 SF41G~45G SF46G~48G	C_J	50pF 30pF	Measured at 1.0MHz, V_R=4.0V

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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	---	

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

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