

Micro Commercial Components



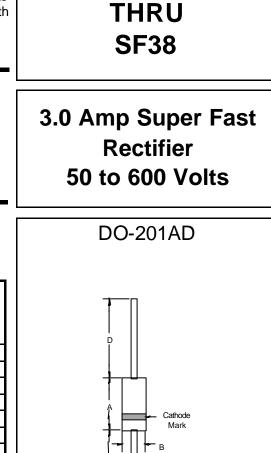
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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
- High Surge Capability
- Marking: Type Number
- Halogen free available upon request by adding suffix "-HF"

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capacitive load, derate current by 20%

| MCC Red | | ximum current Reverse | | Maximum RMS Voltage | | Maximum DC Blocking Voltage | |
|---|--------|-----------------------------|---------------------------------------|------------------------|--|---|--|
| | | oltage | i i i i i i i i i i i i i i i i i i i | | | | |
| | | 50V | | 35V | | 50V | |
| SF32 1 | | 00V | | 70V | | 100V | |
| SF33 1 | | 50V | | 105V | | 150V | |
| SF34 2 | | 200V | | 140V | | 200V | |
| | | 00V | | 210V | | 300V | |
| SF36 4 | | V00 | | 280V | | 400V | |
| SF38 | SF38 6 | | 420V | | | 600V | |
| Electrical Characteristics @ 25°C Unless Otherwise Specified | | | | | | | |
| Average Forward Current | | I _{F(AV)} | | 3.0 A | | = 55°C | |
| Peak Forward Surge Current | | I _{FSM} | | 100A | 8.3ms, half sine | | |
| Maximum Instantaneous Forward Voltage SF31-SF34 SF35-SF36 SF38 | | V _F | | .95V 1.3V 1.7V | l _{FM} = 3.0A; T _C = 25°C | | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | | I _R | | 5.0μΑ 00μΑ | $T_{\rm C}=25^{\circ}{\rm C}$ $T_{\rm C}=100^{\circ}{\rm C}$ | | |
| Typical Junction Capacitance SF31-SF34 SF35-SF38 | | CJ | | | | easured at MHz, V _R =4.0V | |
| Maximum Reverse Recovery Time | | Trr | | 35ns | l⊧=0.5A, l _R =1.0A, l _r =0.25A | | |



SF31

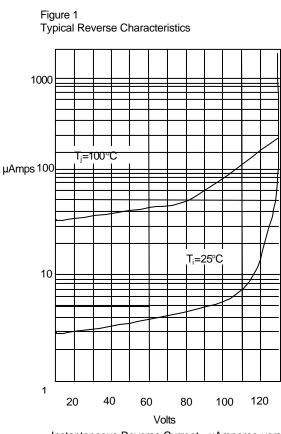
DIMENSIONS INCHES NOTE DIM MIN MIN MAX MAX А .287 7.30 9.50 374 В .189 .208 4.80 5.30 .048 1.20 С .052 1.30 D 1 000 25 /0

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

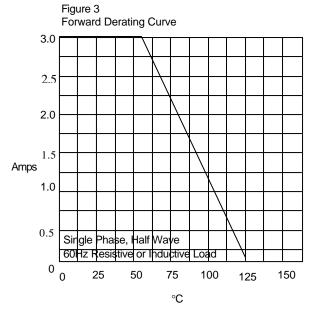
www.mccsemi.com

SF31 thru SF38

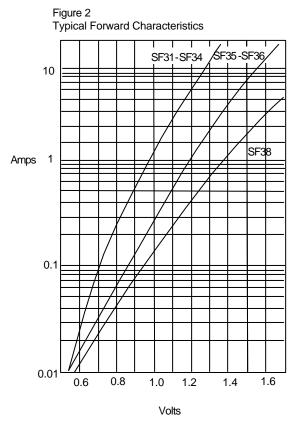




Instantaneous Reverse Current - µAmperes *versus* Percent of Rated Peak Reverse Voltage - %



Average Forward Rectified Current Per Leg - Amperes <code>versus</code> Case Temperature - $^\circ C$



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

www.mccsemi.com

SF31 thru SF38



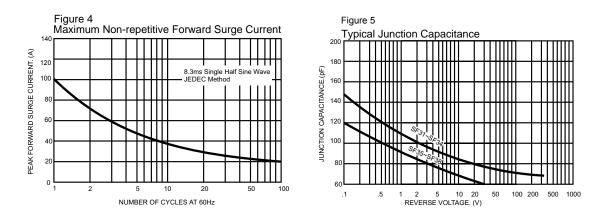
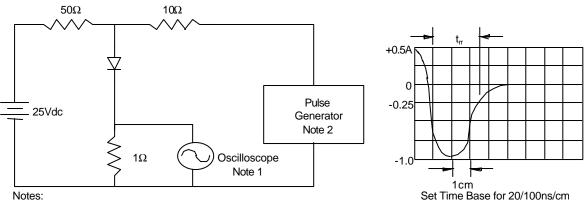


Figure 6 Reverse Recovery Time Characteristic And Test Circuit Diagram



1. Rise Time = 7ns max. Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive

www.mccsemi.com



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 | | | |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Micro Commercial Components (MCC) manufacturer:

Other Similar products are found below :

 70HFR40
 RL252-TP
 150KR30A
 1N5397
 NTE5841
 NTE6038
 SCF5000
 1N4002G
 1N4005-TR
 JANS1N6640US
 481235F

 RRE02VS6SGTR
 067907F
 MS306
 70HF40
 T85HFL60S02
 US2JFL-TP
 A1N5404G-G
 ACGRA4007-HF
 ACGRB207-HF

 CLH03(TE16L,Q)
 ACGRC307-HF
 ACEFC304-HF
 NTE6356
 NTE6359
 NTE6002
 NTE6023
 NTE6039
 NTE6077
 85HFR60
 40HFR60

 70HF120
 85HFR80
 D126A45C
 SCF7500
 D251N08B
 SCHJ22.5K
 SM100
 SCPA2
 SCH10000
 SDHD5K
 VS-12FL100S10
 ACGRA4001

 HF
 D1821SH45T
 PR
 D1251S45T
 NTE6358
 NTE6162
 NTE5850
 SKN300/16