

**Micro Commercial Components** 



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

- Features
  Halogen free available upon request by adding suffix "-HF"
- **Glass Passivated Junction**
- Low Leakage Current and Fast Switching
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

### Maximum Ratings

- Operating Temperature: -55°C to + 150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30 °C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N4933GP	1N4933GP	50V	35V	50V
1N4934GP	1N4934GP	100V	70V	100V
1N4935GP	1N4935GP	200V	140V	200V
1N4936GP	1N4936GP	400V	280V	400V
1N4937GP	1N4937GP	600V	420V	600V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

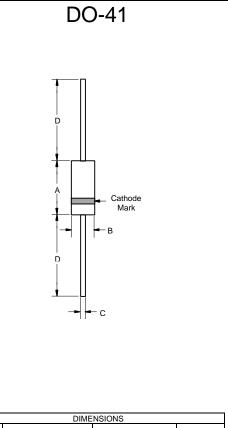
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> =55°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.2V	$I_{FM} = 1.0A;$ $T_J = 25^{\circ}C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 50μΑ 100μΑ	$T_{J} = 25^{\circ}C$ $T_{J} = 100^{\circ}C$ $T_{J} = 125^{\circ}C$
Maximum Reverse Recovery Time	Trr	200ns	I <sub>F</sub> =1.0A, V <sub>R</sub> =30V
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

\*Pulse test: Pulse width 300 µsec, Duty cycle 1%

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

# 1N4933GP THRU 1N4937GP

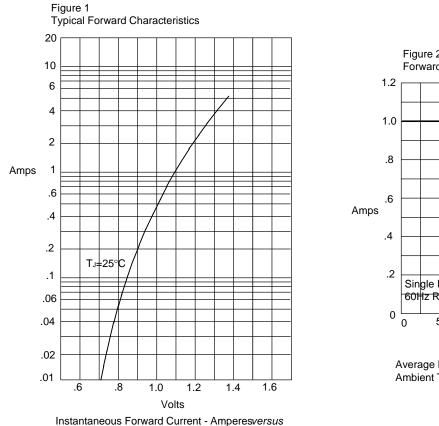
### 1 Amp Glass **Passivated Fast Recovery Rectifier** 50 - 600 Volts



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

# www.mccsemi.com

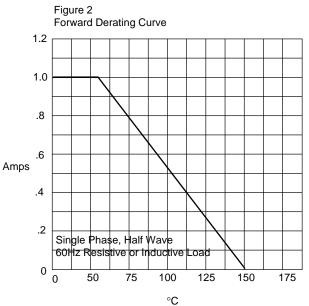
### 1N4933GP thru 1N4937GP



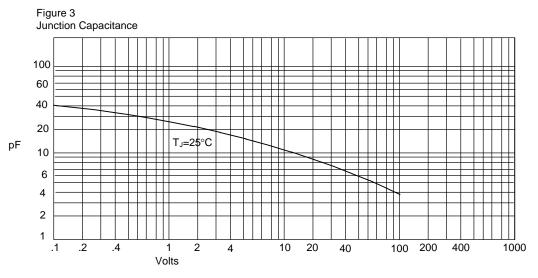
Instantaneous Forward Voltage - Volts



### **Micro Commercial Components**



Average Forward Rectified Current - Amperes/ersus Ambient Temperature  $-^{\circ}C$ 



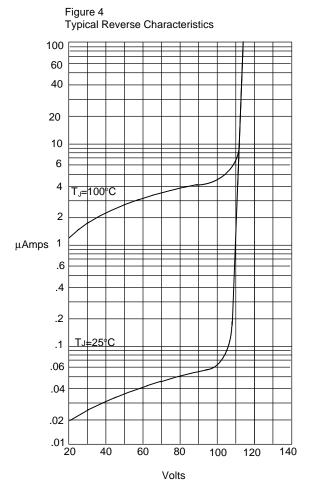
Junction Capacitance - pF*versus* Reverse Voltage - Volts

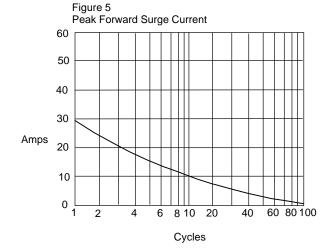
# - www.mccsemi.com

### 1N4933GP thru 1N4937GP



**Micro Commercial Components** 



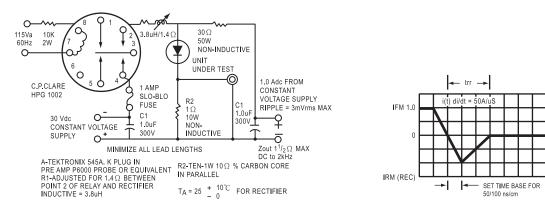


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



## — www.mccsemi.com

#### Revision: C



### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/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.

# www.mccsemi.com