

Micro Commercial Components 21201 Itasca Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

#### Features

- Glass Passivated Junction
- Low Leakage Current
- Metalurgically Bonded Construction
- Low Cost
- Fast Switching

### **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
1N4933		50V	35V	50V
1N4934		100V	70V	100V
1N4935		200V	140V	200V
1N4936		400V	280V	400V
1N4937		600V	420V	600V

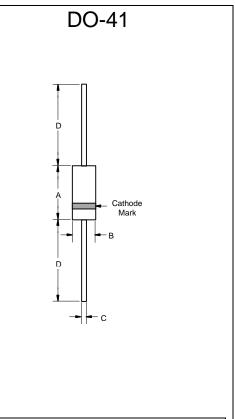
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

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>	1.3V	$I_{FM} = 1.0A;$ $T_J = 25^{\circ}C^{*}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μΑ 100μΑ	$T_{J} = 25^{\circ}C$ $T_{J} = 125^{\circ}C$
Maximum Reverse Recovery Time	Trr	200ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at I⊧=1.0A V <sub>R</sub> =30V

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

## 1N4933GP THRU 1N4937GP

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

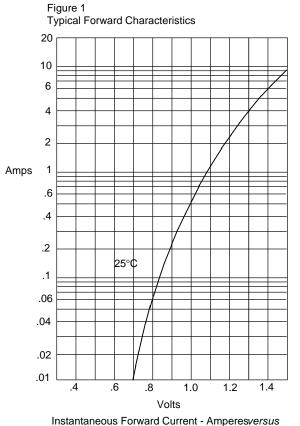


DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	.205	4.10	5.20			
В	.080	.107	2.00	2.70			
С	.028	.034	.70	.90			
D	1.000		25.40				

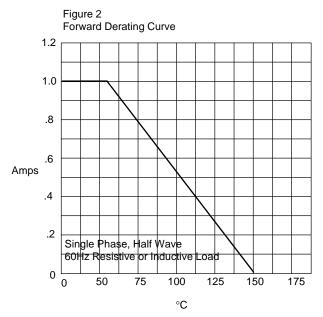
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#### 1N4933GP thru 1N4937GP

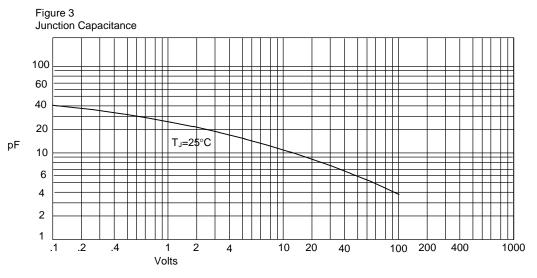




Instantaneous Forward Voltage - Volts



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



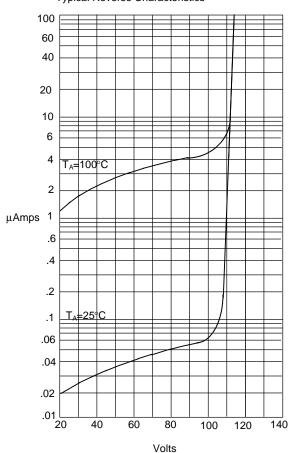
Junction Capacitance - pF*versus* Reverse Voltage - Volts

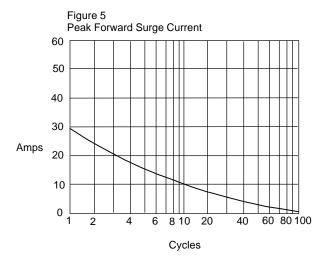
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#### 1N4933GP thru 1N4937GP



Figure 4 Typical Reverse Characteristics



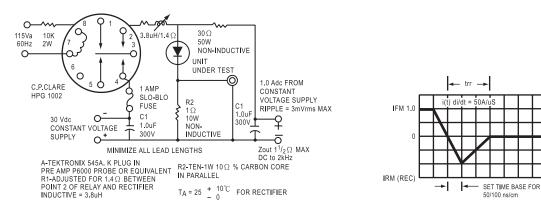


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



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