

**Micro Commercial Components** 



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1N4933 **THRU** 1N4937

### **Features**

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

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

#### **Bectrical Characteristics @25°CUhless Otherwise Specified**

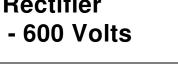
Average Forward Current	$I_{F(AV)}$	1.0A	T <sub>A</sub> =55°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_{F}$	1.3V	I <sub>FM</sub> = 1.0A; T <sub>J</sub> = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5.0μA 100μA	T <sub>J</sub> = 25°C T <sub>J</sub> = 125°C
Maximum Reverse Recovery Time	T <sub>rr</sub>	200ns	I <sub>F</sub> =1.0A, V <sub>R</sub> =30V
Typical Junction Capacitance	С	15pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

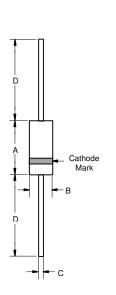
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 1%

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

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

**DO-41** 





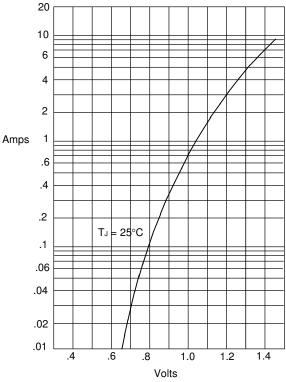
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

### 1N4933 thru 1N4937

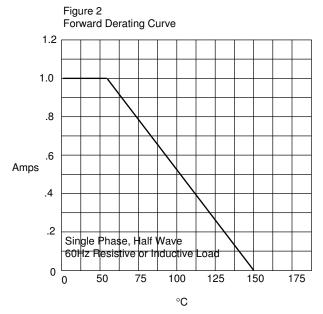
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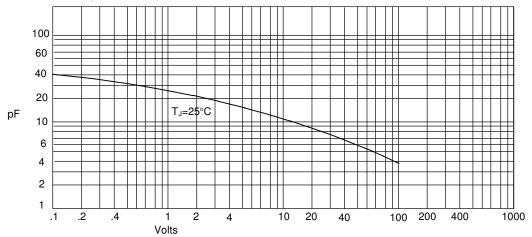


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes*versus* Ambient Temperature -°C



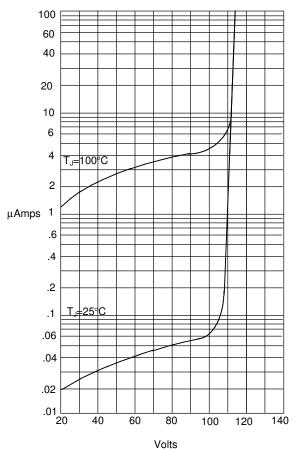


Junction Capacitance - pF*versus* Reverse Voltage - Volts

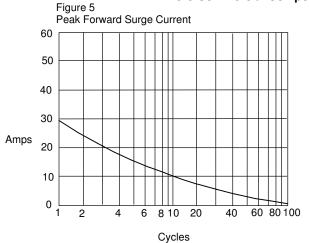
### 1N4933 thru 1N4937

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Figure 4
Typical Reverse Characteristics



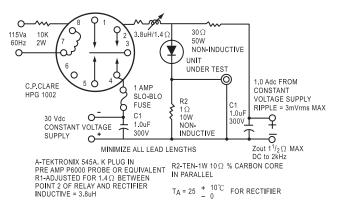
**Micro Commercial Components** 

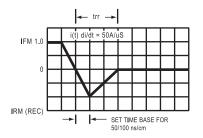


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram







# 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

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