

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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1N4933 **THRU** 1N4937

## **Features**

- 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

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

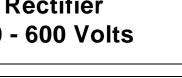
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> =55°C
Peak Forward Surge	I <sub>FSM</sub>	30A	8.3ms, half sine
Current	'FSM	00/1	0.01113, 11411 31110
Maximum			
Instantaneous	$V_{F}$	1.3V	$I_{FM} = 1.0A;$
Forward Voltage			$T_J = 25^{\circ}C^*$
Maximum DC			
Reverse Current At	$I_R$	5.0μΑ	$T_J = 25^{\circ}C$
Rated DC Blocking		100μΑ	$T_J = 125^{\circ}C$
Voltage			
Maximum Reverse	$T_{rr}$	200ns	I <sub>F</sub> =1.0A,
Recovery Time			$V_R=30V$
Typical Junction	C₁	15pF	Measured at
Capacitance			1.0MHz,
			$V_R=4.0V$

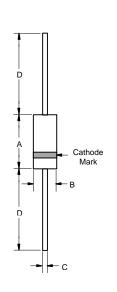
<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 1%

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

# 1 Amp Fast Recovery Rectifier 50 - 600 Volts

DO-41





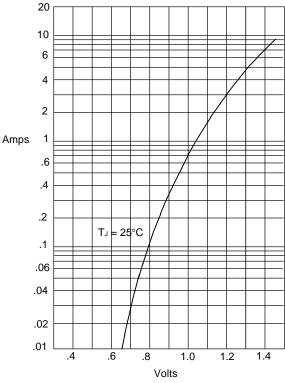
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.166	.205	4.10	5.20	
В	.080	.107	2.00	2.70	
С	.028	.034	.70	.90	
D	1.000		25.40		

# 1N4933 thru 1N4937

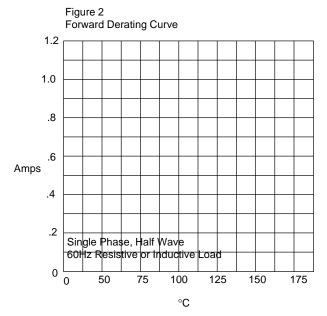


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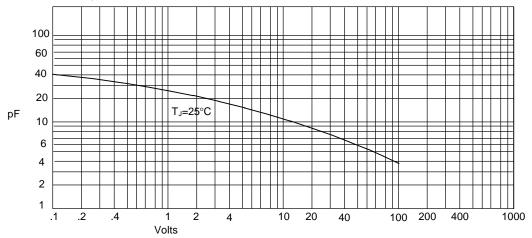


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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



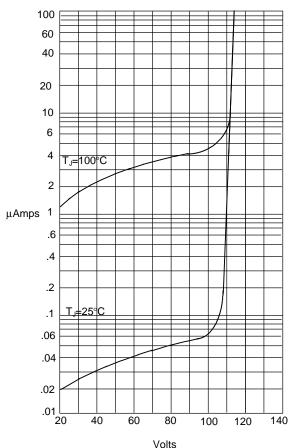


Junction Capacitance - pF*versus* Reverse Voltage - Volts

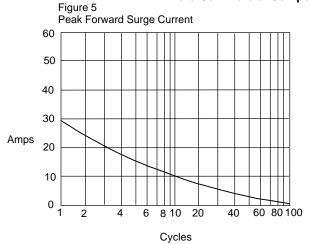
# 1N4933 thru 1N4937

 $\cdot M \cdot C \cdot C \cdot$ 

Figure 4
Typical Reverse Characteristics



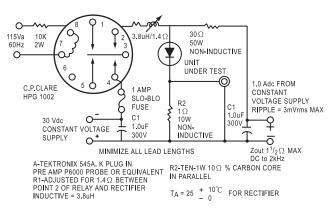
**Micro Commercial Components** 

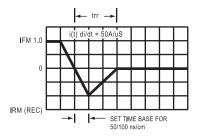


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes*ersus* 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	

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