

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

Electrical Characteristics @ 25°C Unless Otherwise Specified

			· · · · · · · · · · · · · · · · · · ·
Average Forward	$I_{F(AV)}$	1.0A	$T_A = 55^{\circ}C$
Current	, ,		
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			,
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 _{.1} = 125°C
Voltage		•	
Maximum Reverse	T_{rr}	200ns	I _F =1.0A,
Recovery Time			$V_R=30V$
-			
Typical Junction	С ^л	15pF	Measured at
Capacitance			1.0MHz,
			V _R =4.0V

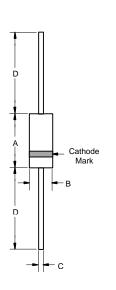
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 1%

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

1 Amp Fast Recovery Rectifier 50 - 600 Volts

DO-41





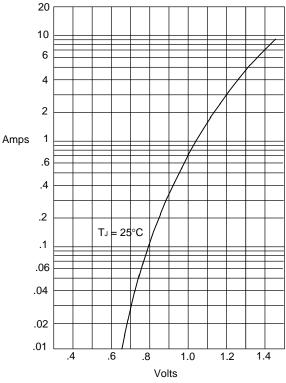
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
C	.028	.034	.70	.90		
D	1.000		25.40			

1N4933 thru 1N4937

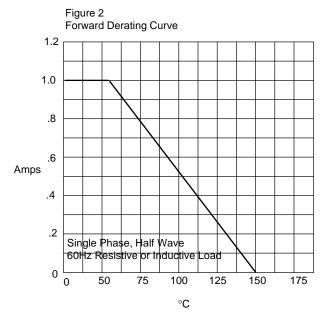


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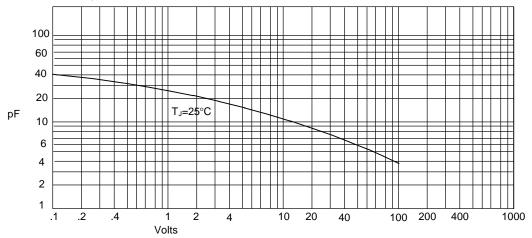
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts





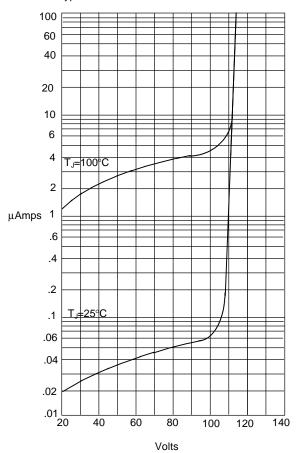


Junction Capacitance - pF*versus* Reverse Voltage - Volts

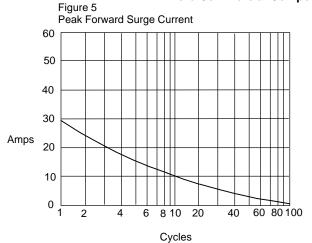
1N4933 thru 1N4937

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

Figure 4
Typical Reverse Characteristics



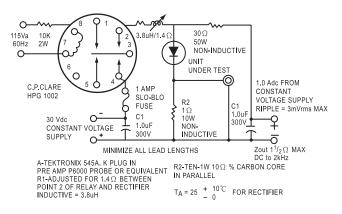
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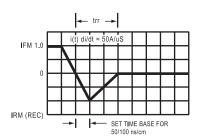


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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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