

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 1N4942 THRU 1N4948

Features

- Halogen free available upon request by adding suffix "-HF"
- 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; 50 °C/W Junction To Ambient

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
1N4942	1N4942	200V	140V	200V
1N4944	1N4944	400V	280V	400V
1N4946	1N4946	600V	420V	600V
1N4947	1N4947	800V	560V	800V
1N4948	1N4948	1000V	700V	1000V

Hectrical Characteristics @ 25°C Unless Otherwise Specified

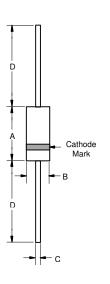
icottical onalactoris	1,00 @ 20 0		tor wide openine
Average Forward Current	$I_{F(AV)}$	1.0A	T _A =55°C
Peak Forward Surge Current	I _{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.3V	I _{FM} = 1.0A; T _A = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 500μA	T _J = 25°C T _J = 175°C
Maximum Reverse Recovery Time 1N4942-4944 1N4946-4947 1N4948	T_{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _P =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1 Amp Fast Recovery Rectifier 200 to 1000 Volts





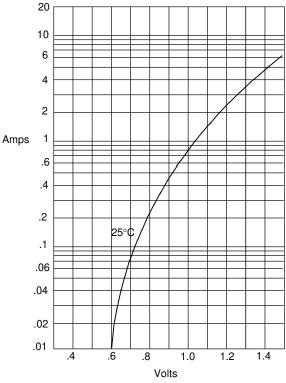
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

1N4942 thru 1N4948

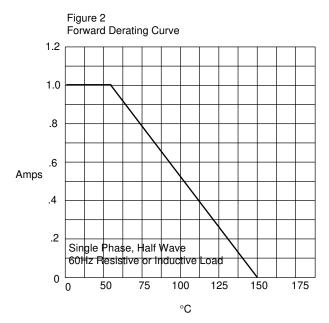
·M·C·C·

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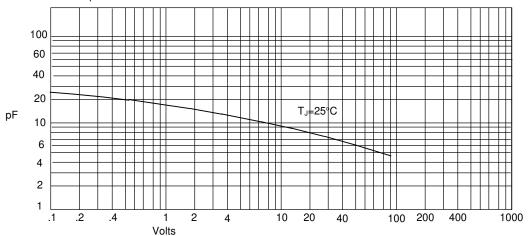


Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



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



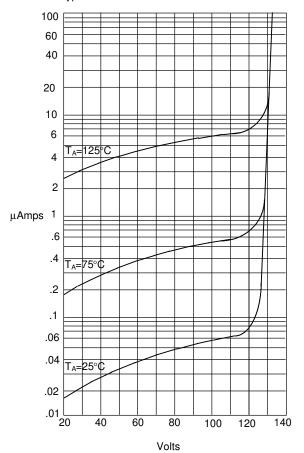


Junction Capacitance - pF*versus* Reverse Voltage - Volts

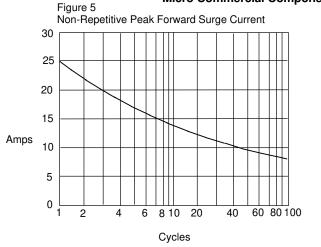
1N4942 thru 1N4948

·M·C·C·

Figure 4
Typical Reverse Characteristics



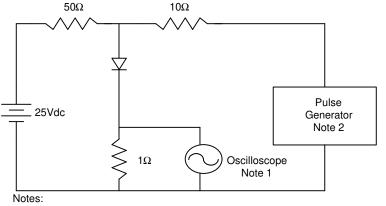
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram



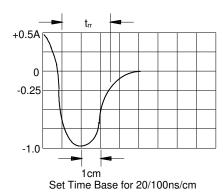
1. Rise Time = 7ns max.

Input impedance = 1 megohm, 22pF

2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive





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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