



Micro Commercial Components

Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

1N914(A)(B)

500mW 100 Volt Silicon Epitaxial Diodes

Features

- Moisture Sensitivity: Level 1 per J-STD-020C
- Low Current Leakage
- Compression Bond Construction
- Low Cost
- Marking : Cathode band and type number
- 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; 300°C/W Junction To Ambient

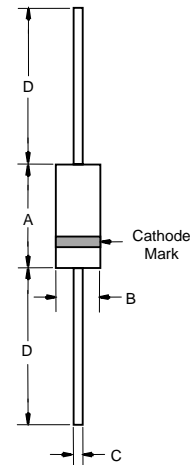
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Repetitive Reverse Voltage	V _{RRM}	100V	
Average Rectified Forward Current	I _O	200mA	
Power Dissipation	P _D	500mW	
Junction Temperature	T _J	150°C	
Peak Forward Surge Current	I _{FSM}	1.0A 4.0A	Pulse Width=1.0 second Pulse Width=1.0 microsecond
Minimum Breakdown Voltage	V _R	100V 75V	I _R =100uA, I _R =5.0uA
Maximum Instantaneous Forward Voltage	V _F	1.0V	T _J = 25°C I _{FM} = 10mA; I _{FM} = 20mA; I _{FM} = 100mA; I _{FM} = 5.0mA;
Maximum Reverse Current	I _R	25nA 5.0uA 50uA	V _R =20V, T _J =25°C, V _R =75V, T _J =25°C, V _R =20V, T _J =150°C
Typical Junction Capacitance	C _J	4.0pF	Measured at 1.0MHz, V _R =0V
Reverse Recovery Time	T _{rr}	4.0nS	I _F =10mA V _R = 6V R _L =100 Ω, I _{rr} =1.0mA

*Pulse test: Pulse width 300 usec, Duty cycle 2%

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

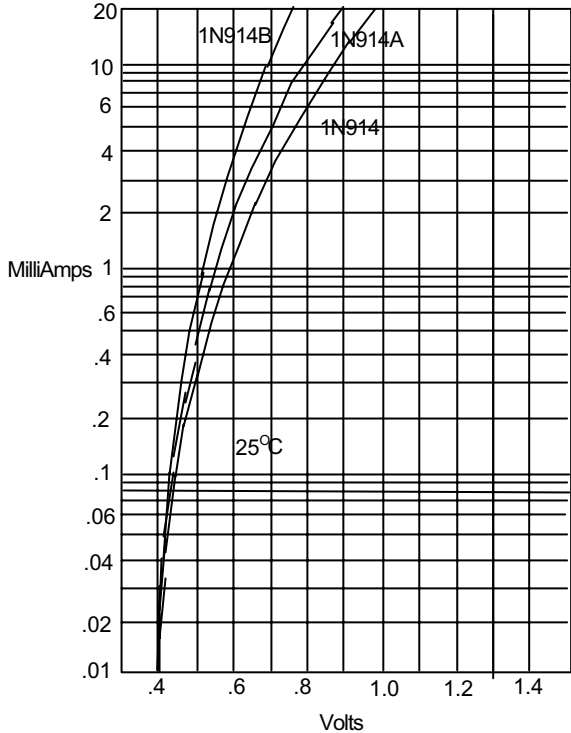
DO-35



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

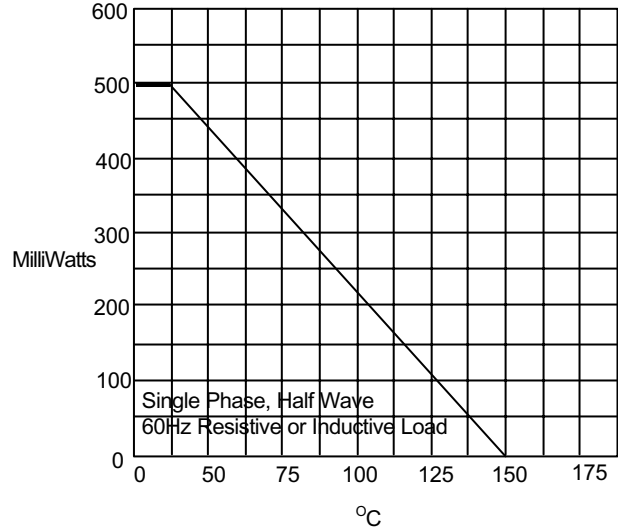
1N914(A)(B)

Figure 1
Typical Forward Characteristics



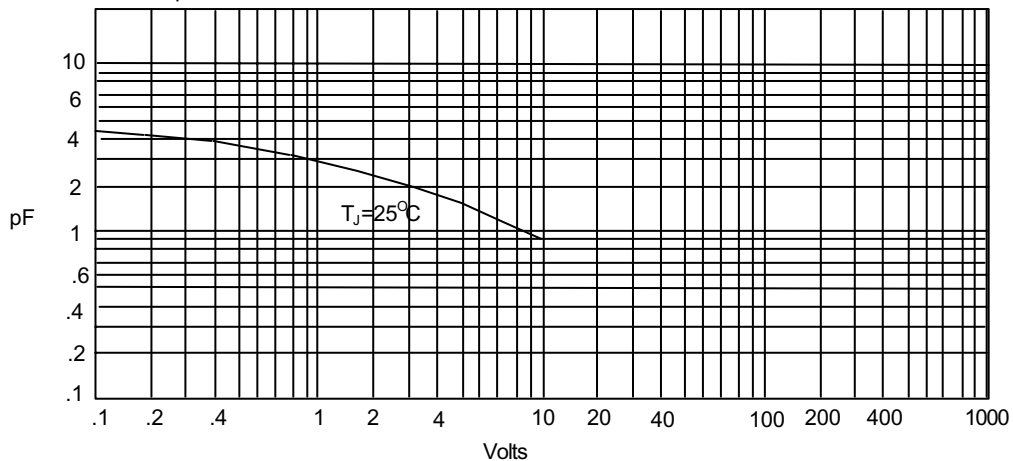
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward De rating Curve



Admissible Power Dissipation - MilliWatts versus
Ambient Temperature - °C

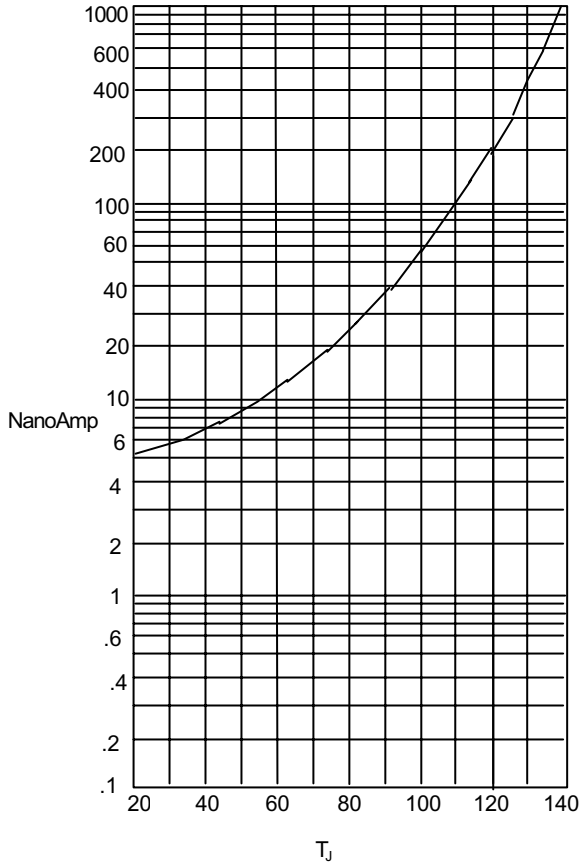
Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

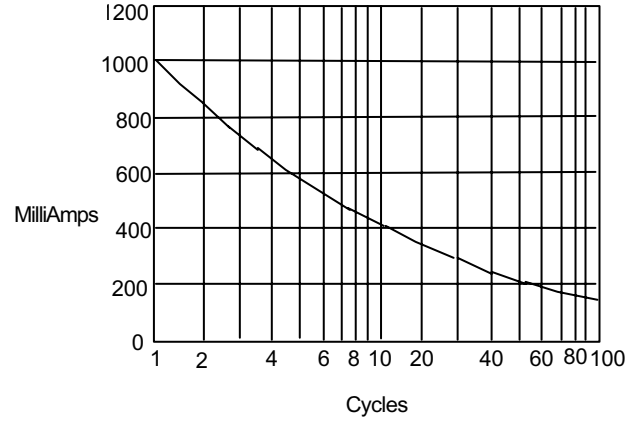
1N914(A)(B)

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes
versus Junction Temperature $^{\circ}C$

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



TM

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.

www.mccsemi.com