



Micro Commercial Components  
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# 1N914(A)(B)

## 500mW 100 Volt Silicon Epitaxial Diodes

### Features

- Moisture Sensitivity Level 1
- 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 <sub>RRM</sub>	100V	
Average Rectified Forward Current	I <sub>O</sub>	200mA	
Power Dissipation	P <sub>D</sub>	500mW	
Junction Temperature	T <sub>J</sub>	150°C	
Peak Forward Surge Current	I <sub>FSM</sub>	1.0A 4.0A	Pulse Width=1.0 second Pulse Width=1.0 microsecond
Minimum Breakdown Voltage	V <sub>R</sub>	100V 75V	I <sub>R</sub> =100µA, I <sub>R</sub> =5.0µA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V 720mV	T <sub>J</sub> = 25°C I <sub>FM</sub> = 10mA; I <sub>FM</sub> = 20mA; I <sub>FM</sub> = 100mA; I <sub>FM</sub> = 5.0mA;
Maximum Reverse Current	I <sub>R</sub>	25nA 5.0µA 50µA	V <sub>R</sub> =20V, T <sub>J</sub> =25°C, V <sub>R</sub> =75V, T <sub>J</sub> =25°C, V <sub>R</sub> =20V, T <sub>J</sub> =150°C
Typical Junction Capacitance	C <sub>J</sub>	4.0pF	Measured at 1.0MHz, V <sub>R</sub> =0V
Reverse Recovery Time	T <sub>rr</sub>	4.0nS	I <sub>F</sub> =10mA V <sub>R</sub> = 6V R <sub>L</sub> =100 Ω, I <sub>rr</sub> =1.0mA

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

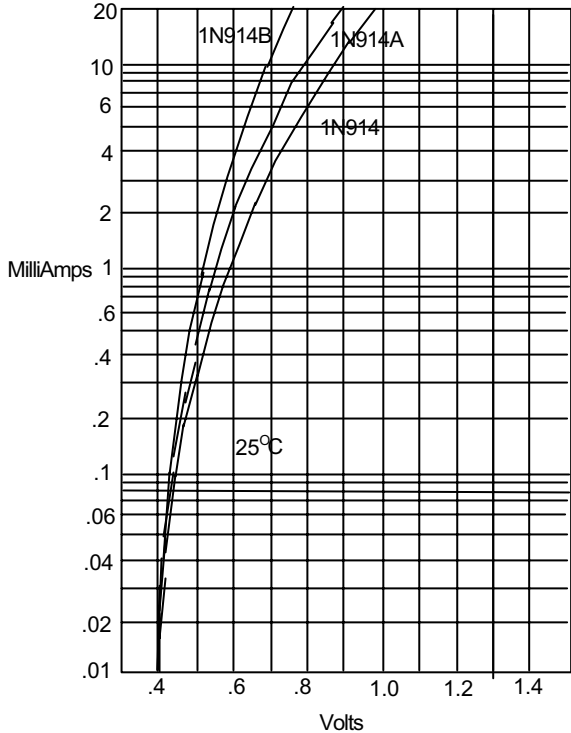
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

### DO-35

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

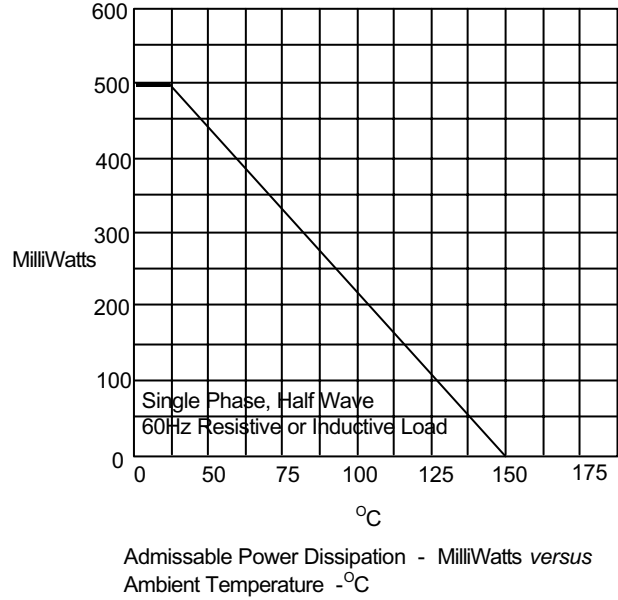
# 1N914(A)(B)

Figure 1  
Typical Forward Characteristics



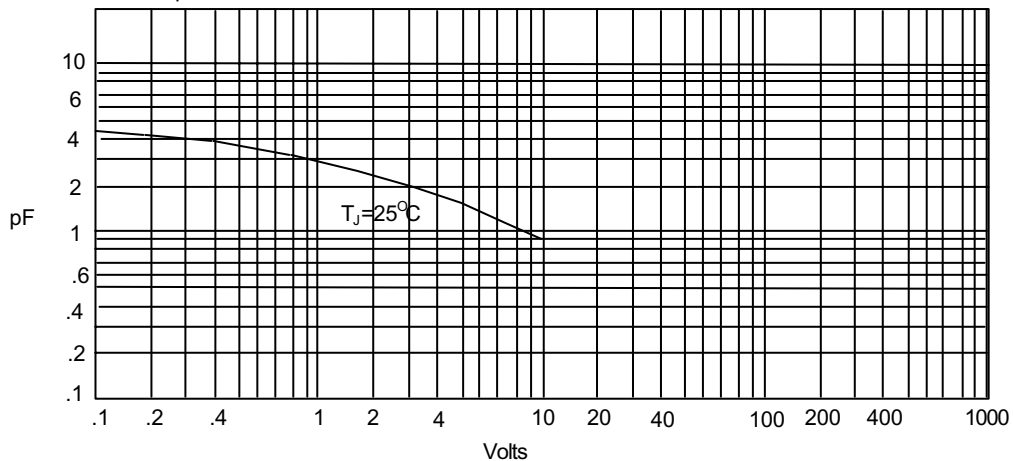
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward De rating Curve



Admissible Power Dissipation - MilliWatts versus  
Ambient Temperature - °C

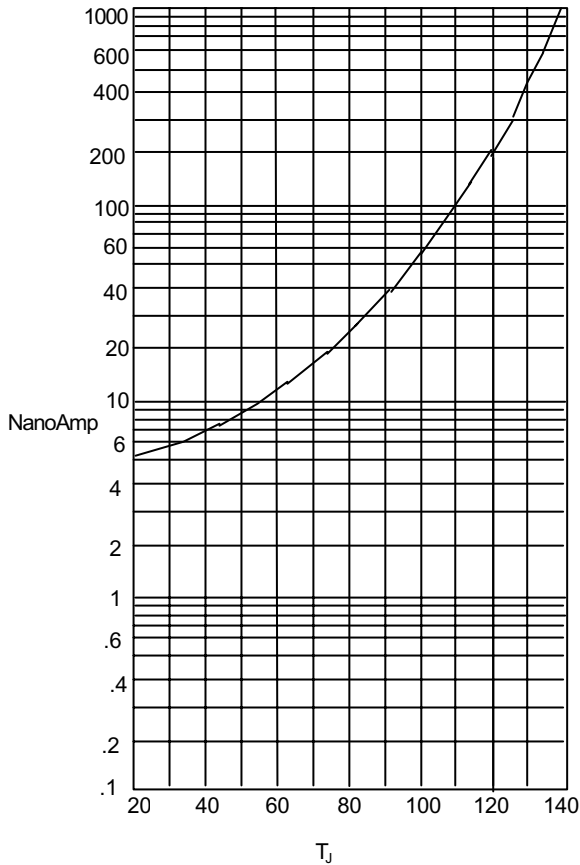
Figure 3  
Junction Capacitance



Junction Capacitance - pF versus  
Reverse Voltage - Volts

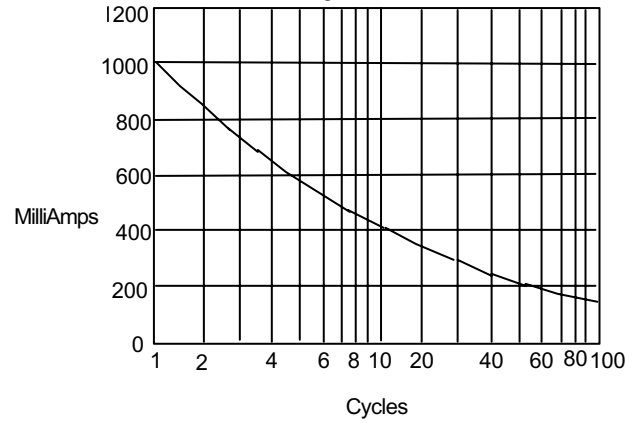
# 1N914(A)(B)

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes  
versus Junction Temperature - °C

Figure 5  
Peak Forward Surge Current



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

**Ordering Information :**

<b>Device</b>	<b>Packing</b>
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/AmmoBox
Part Number-BP	Bulk: 100Kpcs/Carton

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