



Micro Commercial Components

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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

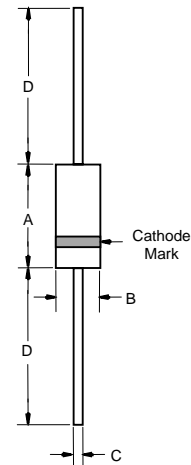
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 720mV	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.

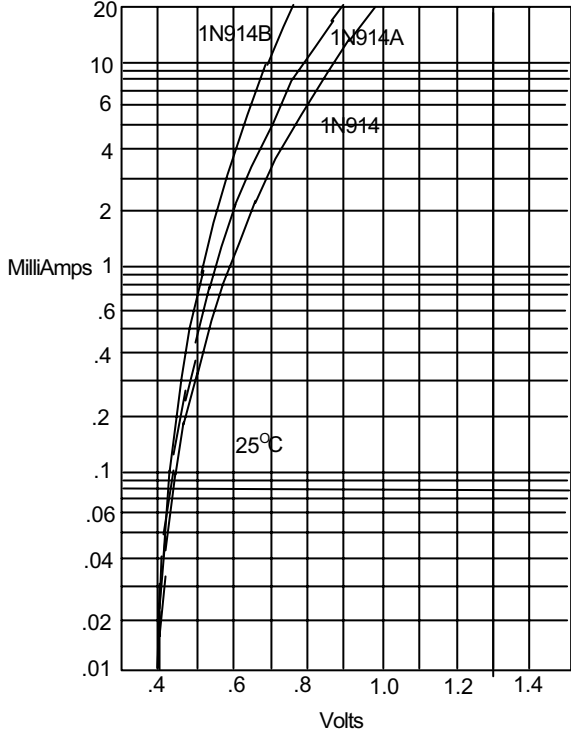
DO-35



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	---	

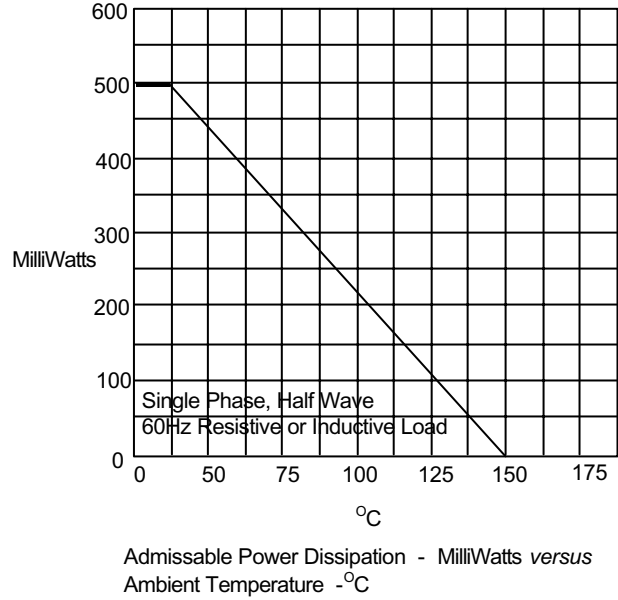
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Figure 1
Typical Forward Characteristics



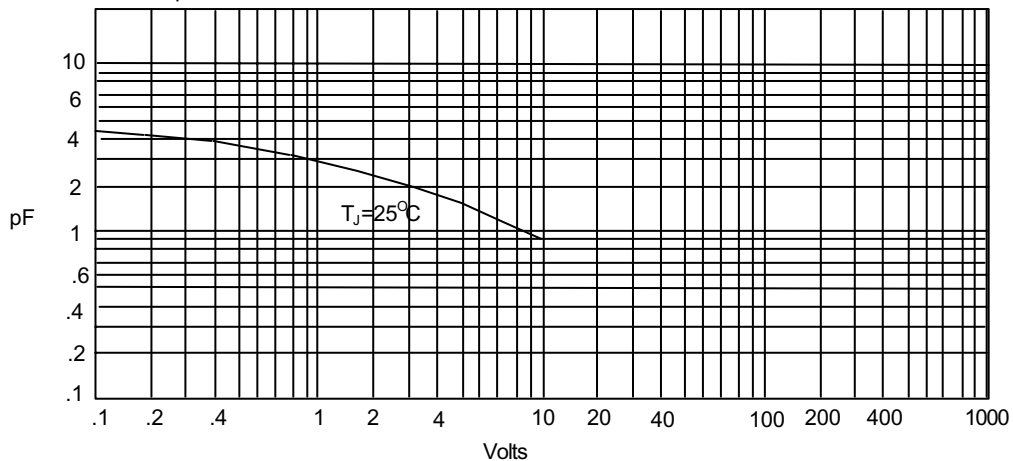
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward De rating Curve



Admissible Power Dissipation - MilliWatts versus
Ambient Temperature - °C

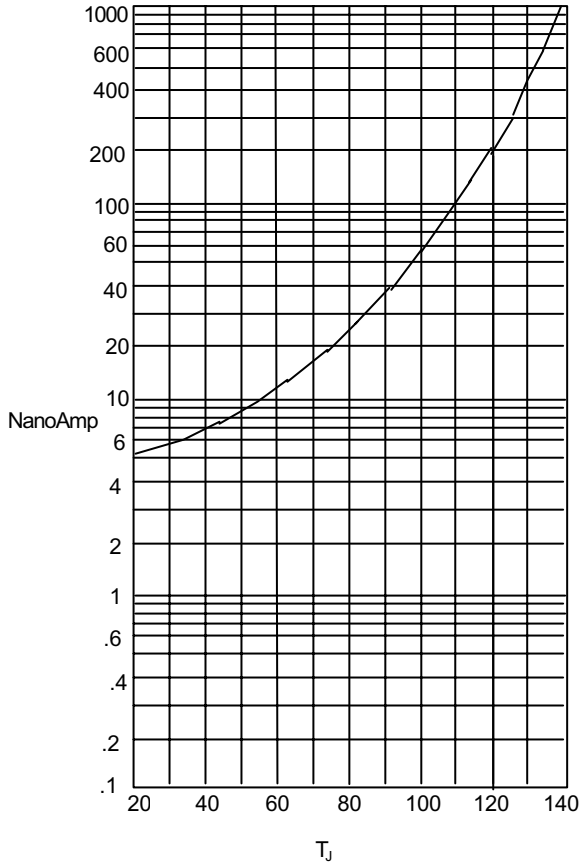
Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

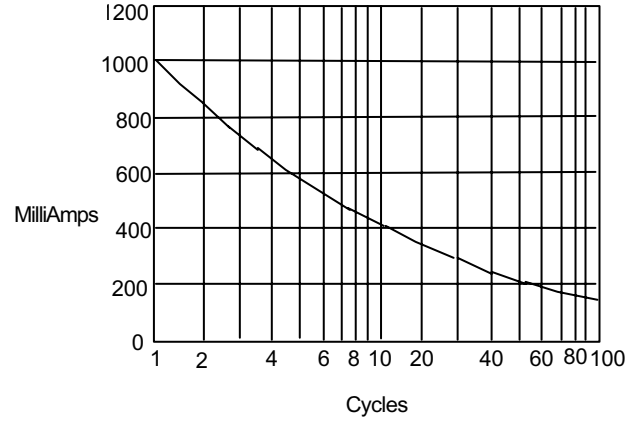
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Figure 4
Typical Reverse Characteristics



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



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Ordering Information

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

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