

**Micro Commercial Components** 

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1N4448

- Features

  Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- Marking: Cathode band and type number
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 35 °C/W Junction To Ambient

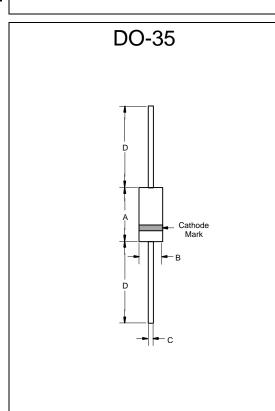
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	$V_R$	75V	
Peak Reverse	$V_{RM}$	100V	
Voltage			
Average Rectified	Io	150mA	Resistive Load
Current			f >= 50Hz
Power Dissipation	P <sub>TOT</sub>	500mW	
Junction	$T_J$	150°C	
Temperature			
Peak Forward Surge	I <sub>FSM</sub>	500mA	t<1s
Current			
Instantaneous	$V_{F}$	1.0V(MAX)	I <sub>FM</sub> = 100mA;
	VF	, ,	
Forward Voltage		0.62-0.72V	$I_{FM} = 5.0 \text{mA}$
Maximum DC			V <sub>R</sub> =20Volts
Reverse Current At	$I_{R}$	25nA	$T_J = 25^{\circ}C$
Rated DC Blocking		50μΑ	T <sub>J</sub> = 150°C
Voltage		5µA	V <sub>R</sub> =75Volts
Typical Junction	С	4pF	Measured at
Capacitance		-	1.0MHz, $V_R$ =4.0V
Reverse Recovery	T <sub>rr</sub>	4nS	I <sub>F</sub> =10mA
Time			$V_R = 6V$
			$R_L=100\Omega$

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

# 500mW 100Volt **Switching Diode**



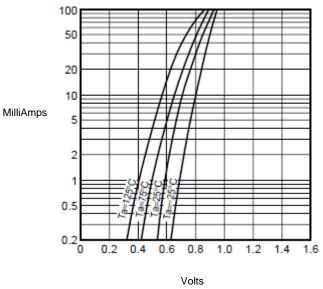
DIMENSIONS							
		5					
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α		.166		4.2			
В		.079		2.00			
С		.020		.52			
D	1.000		25.40				

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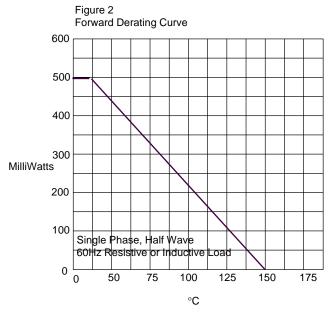


Figure 1 Typical Forward Characteristics

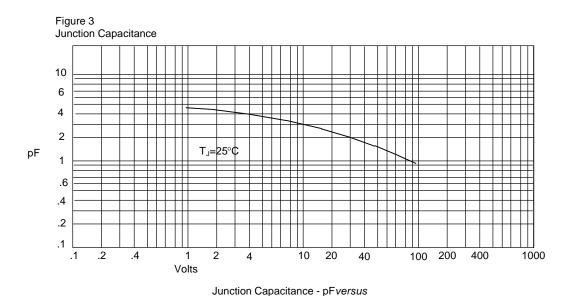
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Volts
Instantaneous Forward Current - MilliAmperes *versus*Instantaneous Forward Voltage - Volts



Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C

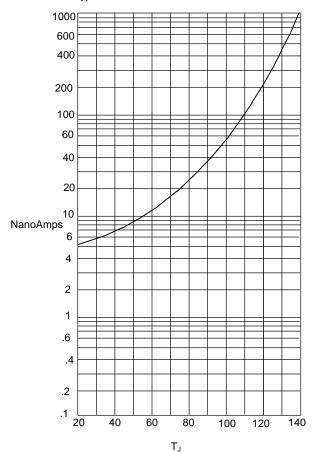


Reverse Voltage - Volts

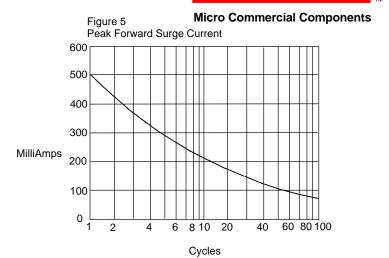
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperesersus Junction Temperature -°C



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



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### Ordering Information:

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

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