

Micro Commercial Components



Micro Commercial Components 20736 Marilla Chatsworth

CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

- 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 _{TOT}	500mW	
Junction	T_J	150°C	
Temperature			
Peak Forward Surge	I _{FSM}	500mA	t<1s
Current			
Instantaneous	V_{F}	1.0V(MAX)	I _{FM} = 100mA;
	VF	, ,	
Forward Voltage		0.62-0.72V	$I_{FM} = 5.0 \text{mA}$
Maximum DC			V _R =20Volts
Reverse Current At	I_{R}	25nA	$T_J = 25^{\circ}C$
Rated DC Blocking		50μΑ	T _J = 150°C
Voltage		5uA	V _R =75Volts
Typical Junction	С	4pF	Measured at
Capacitance		-	1.0MHz, V_R =4.0V
Reverse Recovery	T _{rr}	4nS	I _F =10mA
Time			$V_R = 6V$
			$R_L=100\Omega$

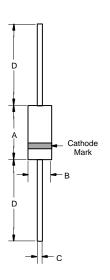
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

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500mW 100Volt **Switching Diode**

DO-35



DIMENGIONO								
DIMENSIONS								
	INCHES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α		.166		4.2				
В		.079		2.00				
C		.020		.52				
D	1.000		25.40					

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Figure 1
Typical Forward Characteristics



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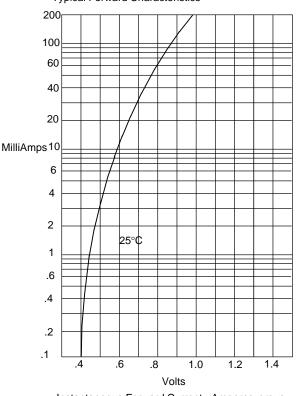
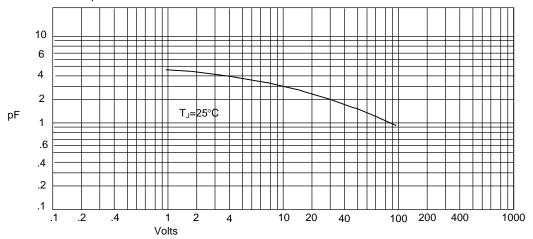


Figure 2 Forward Derating Curve 600 500 400 300 MilliWatts 200 100 Single Phase, Half Wave 60Hz Resistive or Inductive Load 75 100 125 150 175 $^{\circ}\text{C}$

Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C

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

Figure 3
Junction Capacitance

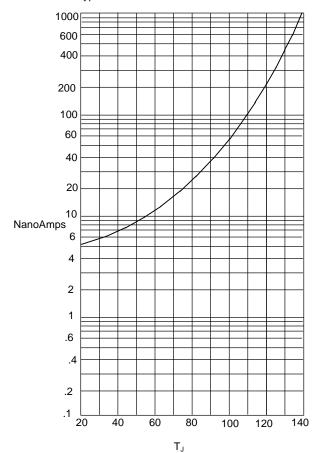


Junction Capacitance - pF*versus* Reverse Voltage - Volts

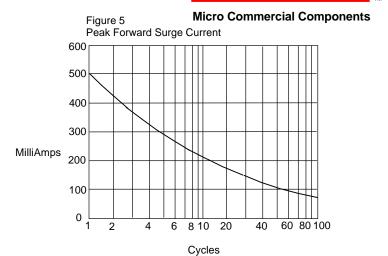
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·*M*·*C*·*C*·

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	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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