

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

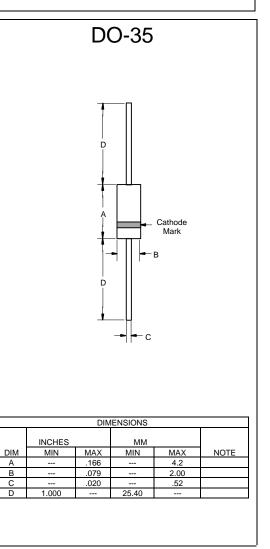
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 35 °C/W Junction To Ambient

ectrical characteristics @ 25°C unless otherwise Specified				
Reverse Voltage	V _R	75V		
Peak Reverse	V _{RM}	100V		
Voltage				
Average Rectified	Ιo	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;	
Forward Voltage	۷F	0.62-0.72V	$I_{FM} = 5.0 \text{mA}$	
Torward Voltage		0.02-0.720		
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	CJ	4pF	Measured at	
Capacitance			1.0MHz, V _R =4.0V	
Reverse Recovery	T _{rr}	4nS	I _F =10mA	
Time			$V_R = 6V$	
			$R_L=100\Omega$	

Electrical Characteristics @ 2PC Unless Otherwise Specified

1N4448

500mW 100Volt **Switching Diode**



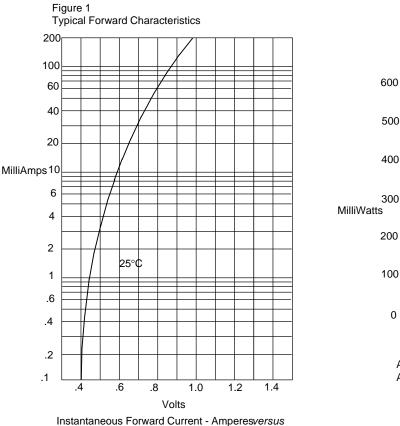
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

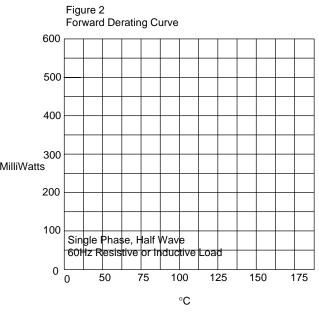
www.mccsemi.com

Downloaded from Elcodis.com electronic components distributor



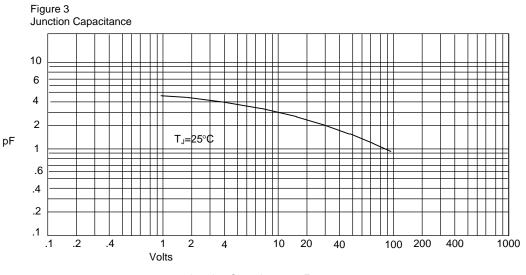


Instantaneous Forward Voltage - Volts



 $\cdot M \cdot C \cdot C \cdot$

Micro Commercial Components



Junction Capacitance - pFversus Reverse Voltage - Volts

www.mccsemi.com

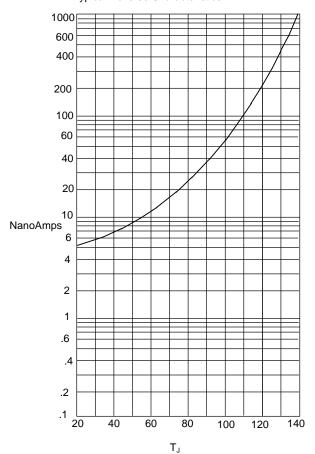
Revision: A

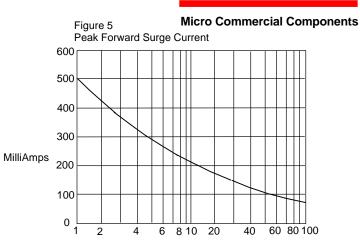
Admissable Power Dissipation - MilliWattsversus Ambient Temperature $\,{}^\circ\mathrm{C}$





Figure 4 Typical Reverse Characteristics





Cycles

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

Instantaneous Reverse Leakage Current - NanoAmperesersus Junction Temperature -°C

www.mccsemi.com

Downloaded from Elcodis.com electronic components distributor



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	

*****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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com