

Micro Commercial Components

Features

- High Reliability
- Low Current Leakage
- Metalurgically Bonded Construction
- Moisture Sensitivity: Level 1 per J-STD-020C
- Marking : Cathode band and type number
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Micro Commercial Components

20736 Marilla Street Chatsworth

(818) 701-4939

Phone: (818) 701-4933

CA 91311

Fax:

Maximum Ratings

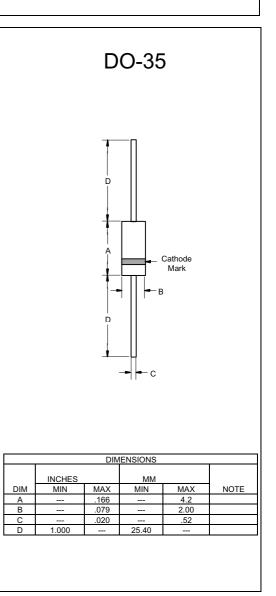
- Operating Temperature: -65℃ to +175℃
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance: 300K/W Junction To Ambient

Electrical Characteristics @ 25 $^\circ\mathrm{C}$ Unless Otherwise Specified

Reverse Voltage	V _R	75V	
Breakdown Voltage	V_{BR}	100V	I _R =100 μ A
Average Forward Current	Ι _ο	150mA	
Power Dissipation	P _{TOT}	500mW	
Junction Temperature	TJ	175 ℃	
Peak Forward Surge Current	I _{FSM}	2.0A	$t_p = 1.0 \ \mu s$
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 10mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 5.0μA 50μA	V_R =20V; T_J = 25 °C V_R =75V; T_J = 25 °C V_R =20V; T_J =150 °C
Maximum Junction Capacitance	CJ	4.0pF	Measured at 1.0MHz, V _R =0V
Maximum Reverse Recovery Time	Trr	4.0ns	I_F =10mA; V_R = 6V R _L =100 Ω



500mW High Speed Switching Diode 100 Volt



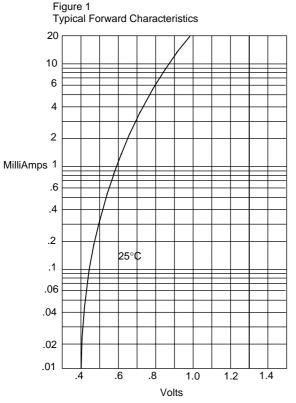
*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

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

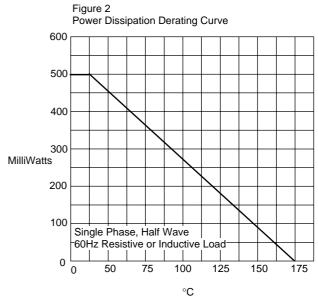
www.mccsemi.com

1N4148

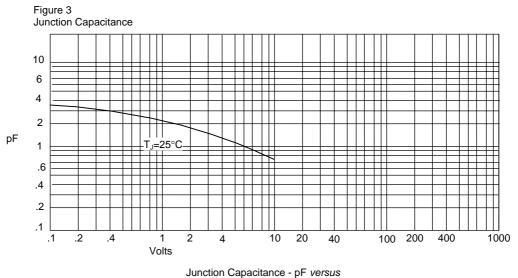




Instantaneous Forward Current - MilliAmperes versus Instantaneous Forward Voltage - Volts



Admissable Power Dissipation - MilliWatts versus Junction Temperature - $^\circ \text{C}$

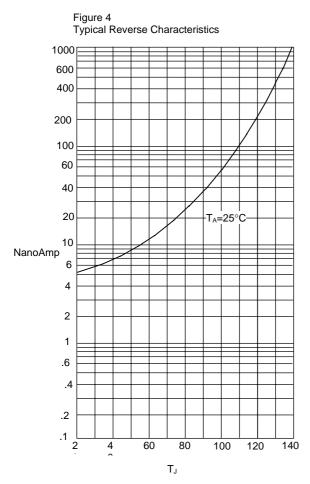


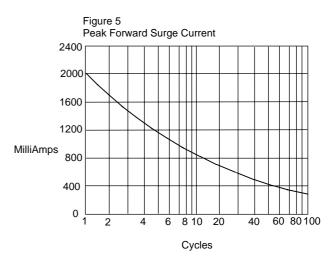
Reverse Voltage - Volts

www.mccsemi.com

1N4148







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

Instantaneous Reverse Leakage Current - NanoAmperes <code>versus</code> Junction Temperature - $^\circ\mathrm{C}$

www.mccsemi.com



Ordering Information

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

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.

APPLICATIONS DISCLAIMER

Products offer by Micro Commercial Components Corp. are not intended for use in Medical,

Aerospace or Military Applications.

