

Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

art Number	1N4148
product family	SWITCHING DIODES
oackage type	DO-35
VRM(PRV)	100V
Ifsm	2.0A
IF(AV)	150mA
@Vf	1.0V
@If	10mA
Trr	4.0nS
IR	5μΑ
@VR	75V
Package Qty	Bulk: 10K/Box, 100K/Ctn; Tape: 10K/Reel, 50K/Ctn;



1N4148

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)

Maximum Ratings

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

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

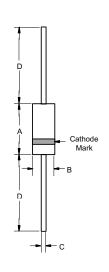
Reverse Voltage	V_R	75V		
Breakdown Voltage	V_{BR}	100V	I_R =100 μ A	
Average Forward Current	Io	150mA		
Power Dissipation	P _{TOT}	500mW		
Junction Temperature	TJ	175℃		
Peak Forward Surge Current	I _{FSM}	2.0A	$t_p = 1.0 \mu\mathrm{s}$	
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 10mA	
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	T _{rr}	4.0ns	$I_F=10\text{mA}; V_R=6V$ $R_L=100\Omega$	

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

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

500mW High Speed Switching Diode 100 Volt

DO-35



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



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.