NOT RECOMMENDED FOR NEW DESIGNS

RoHS

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Micro Commercial Components

Features

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

Maximum Ratings

- Operating Temperature: -65℃ to +175℃ •
- Storage Temperature: -65℃ to +175℃
- 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	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



1N4148



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

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

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Revision: C

1N4148

Figure 1 Typical Forward Characteristics





Instantaneous Forward Current - MilliAmperes versus Instantaneous Forward Voltage - Volts

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



Reverse Voltage - Volts

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

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

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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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