

JANTX1N4148-1

This popular 1N4148-1 JEDEC registered switching/signal diode features internal metallurgical bonded construction for military grade products per MIL-PRF-19500/116. This small low capacitance diode, with very fast switching speeds, is hermetically sealed and bonded into a double-plug DO-35 package. It may be used in a variety of very high speed applications including switchers, detectors, transient OR'ing, logic arrays, blocking, as well as low-capacitance steering diodes, etc. Microsemi also offers a variety of other switching/signal diodes.

Package Carrier: ESD Bag

Electrical Rating	Symbol	Min	Typ	Max	Unit
Forward Voltage (V)	V_F			0.8	V
Junction Capacitance (pF)	C_J			4	pF
Reverse Recovery Time	t_{rr}			5	ns

Maximum Electrical Rating	Symbol	Min	Typ	Max	Unit
Forward Surge Peak Current (A)	I_{FSM}			2	A
Junction Temperature (°C)	T_J	-65		175	°C
Junction Temperature (°C)	T_J	-65		175	°C
Output Current (A)	I_{OUT}			0.2	A
Reverse Breakdown Voltage	V_{BR}			75	V
Reverse Breakdown Voltage	V_{BR}			100	V
Thermal Resistance, Junction to Ambient (°C/W)	$R_{\theta JA}$			325	°C/W
Thermal Resistance, Junction to Lead (°C/W)	$R_{\theta JL}$			250	°C/W

