

Microsemi Corp.
The diode experts



SANTA ANA, CA

For more information call:
(714) 979-8220

JAN1N4148-1



FEATURES

- MICROMINIATURE PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- HERMETICALLY SEALED GLASS PACKAGE
- JANS, TXV, AND TX TYPES AVAILABLE PER MIL-S-19500/116.
SEE SEPARATE DATA SHEET FOR NEW JANS1N6642 PER MIL-S-19500/578 (SUPERCEDES JANS1N4148).
- VOIDLESS CONSTRUCTION

MAXIMUM RATINGS

Operating Temperature: -65°C to $+200^{\circ}\text{C}$

Storage Temperature: -65°C to $+200^{\circ}\text{C}$

Forward Surge Current: 2.0A (8.3 msec.)

Thermal Impedance: 50°C/W @ 10ms.

Thermal Resistance: 250°C/W @ 0.375.

ELECTRICAL CHARACTERISTICS at 25°C unless otherwise specified.

V_{BR}	V_{RWM}	I_0	V_f @ $I_F = 100\text{mA}$	V_f @ $I_F = 10\text{mA}$	I_{rr} (Note 1)	V_{fr} (Note 2)
Volts	Volts (pk)	mA	V dc	V dc	nsec	nsec
100	75	200	1.2	1.0	5	20

I_R @ 20V dc	I_R @ 75V dc	I_R @ 20V $T_A = 150^{\circ}\text{C}$	I_R @ 75V dc $T_A = 150^{\circ}\text{C}$	CAPACITANCE (Note 3)	CAPACITANCE (Note 4)
nA	μA	μA	μA	pF	pF
25	0.5	50	100	4.0	2.8

NOTE 1: $I_F = I_R = 10\text{mA}$, $R_L = 100\text{ohms}$.

NOTE 2: $I_F = 50\text{mA}$ dc.

NOTE 3: $V_R = 0\text{V}$, $f = 1\text{MHz}$, $V_{SIG} = 50\text{mV}$ (pk to pk).

NOTE 4: $V_R = 1.5\text{V}$ dc, $f = 1\text{MHz}$, $V_{SIG} = 50\text{mV}$ (pk to pk).

MILITARY SWITCHING DIODES

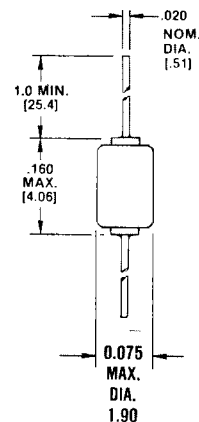


FIGURE 1
PACKAGE D035

All dimensions in $\frac{\text{INCH}}{\text{m.m.}}$

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.



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SCOTTSDALE, AZ

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(602) 941-6300

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V_{BR}	V_{RWM}	I_0	V_f @ $I_F = 100\text{ mA}$	V_f @ $I_F = 10\text{ mA}$	t_{rr} (Note 1)	V_{fr} (Note 2)
Volts (pk)	Volts (pk)	mA	V dc	V dc	nsec	nsec
100	75	200	1.2	1.0	5	20

I_R @ 20V dc	I_R @ 75V dc	I_R @ 20V $T_A = 150^{\circ}\text{C}$	I_R @ 75V dc $T_A = 150^{\circ}\text{C}$	CAPACITANCE (Note 3)	CAPACITANCE (Note 4)
nA	μA	μA	μA	pF	pF
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NOTE 4: $V_R = 1.5\text{ V dc}$, $f = 1\text{ MHz}$, $V_{SIG} = 50\text{ mV}$ (pk to pk).

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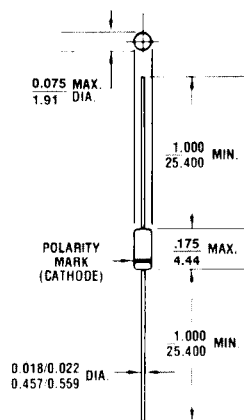


FIGURE 1

All dimensions in
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m.m.

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case (DO-35).

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.