JAN1N4148-1

ALSO AVAILABLE IN SURFACE MOUNT

Microsemi Corp.
The diode experts

SCOTTSDALE, AZ
For more information call:
(602) 941-6300

FEATURES

- MICROMINIATURE PACKAGE
- TRIPLE LAYER PASSIVATION
- HERMETICALLY SEALED GLASS PACKAGE
- JANTX AND TXV TYPES AVAILABLE PER MIL-S-19500/116

MILITARY SWITCHING DIODES

MAXIMUM RATINGS

Operating Temperature: -65°C to +200°C
Storage Temperature: -65°C to +200°C
Forward Surge Current: 2.0A (8.3 msec.)
Thermal Impedance: 50°C/W @ 10 ms
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 mA	V_f @ I_F = 10 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 @ 20 V dc	I_R @ 75 V dc	I_R @ 20 V T_A = 150°C	I_R @ 75 V dc T_A = 150°C	CAPACITANCE (Note 3)	CAPACITANCE (Note 4)
nA	μA	μA	μA	pF	pF
25	0.5	50	100	4.0	2.8

NOTE 1: $I_F = I_R = 10$ mA, $R_L = 100$ ohms.
NOTE 2: $I_F = 50$ mA dc.
NOTE 3: $V_R = 0$ V, f = 1 mHz, $V_{SIG} = 50$ mV (pk to pk).
NOTE 4: $V_R = 1.5$ V dc, f = 1 mHz, $V_{SIG} = 50$ mV (pk to pk).

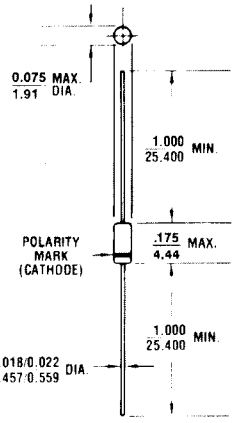

FIGURE 1
All dimensions in INCH / m.m.

MECHANICAL CHARACTERISTICS

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

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.