

Microsemi Corp.
The diode experts



IN4500 and IN4500-1

SANTA ANA, CA

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FEATURES

- SILICON HIGH FORWARD CONDUCTANCE SWITCHING DIODE
- VOIDLESS* HERMETICALLY SEALED GLASS PACKAGE
- METALLURGICALLY BONDED (-1 TYPE)
TX, TXV TYPES AVAILABLE PER MIL-S-19500/403
- * EXCLUDES DO-35 DUMET CONSTRUCTION OPTION.

MAXIMUM RATINGS

Operating Temperature: -65°C to $+175^{\circ}\text{C}$
Storage Temperature: -65°C to $+200^{\circ}\text{C}$
Surge Current: 4 Amps ($t_p = 1\mu\text{s}$)
Leakage Current: 100nA @ 75V, 25°C .

ELECTRICAL CHARACTERISTICS

at 25°C unless otherwise specified.

$V_{(BR)}$	V_{RWM} (working)	I_o (note 1)	i_f (surge) (1 sec)	i_f (surge) (1 μsec)	T_{OP}	T_{STG}
Vdc	V(pk)	mAdc	A	A	$^{\circ}\text{C}$	$^{\circ}\text{C}$
80	75	300	0.5	4.0	-65 to $+175$	-65 to $+200$

CAPACITANCE $V_R = 0$ Volts $V_{sig} = 50$ mVpp $100\text{kHz} \leq f \leq 1$ MHz	V_{f1} @ $I_f = 250\mu\text{Adc}$	V_{f2} @ $I_f = 1.0\text{mA}$	V_{f3} @ $I_f = 10\text{mA}$	V_{f4} @ $I_f = 20\text{mA}$	V_{f5} @ $I_f = 300\text{mA}$ (pulse)	t_{rr} @ $I_f = I_{R2}$ 10mAdc $R_L = 100$ ohms
pF	Vdc	Vdc	Vdc	Vdc	Vdc	ns
4 max.	.47 - .56	.52 - .60	.64 - .72	.67 - .77	1.1 max.	6.0 max.

NOTE 1: DERATE 2.0 mAdc/ $^{\circ}\text{C}$ For T_A Above 25°C .

MILITARY SWITCHING DIODES

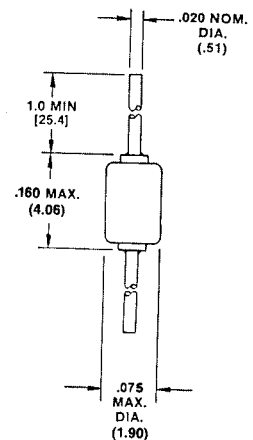


FIGURE 1
PACKAGE DO-35

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed hard glass case.

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.