

Microsemi Corp.

The diode experts

SANTA ANA, CA

For more information call:
(714) 979-8220



**MT5100-MT5103
MT5139, MT5140,
MT2060, MT2060A
MT2061, MT2061A**

FEATURES

- Exhibits leakage currents approaching the theoretical bulk characteristics of silicon.
- Oxide and glass junctions passivated for long-term stable device performance.
- Voidless hermetically sealed glass package.
- Exceeds MIL-S-19500 requirements.

MAXIMUM RATINGS

Storage Temperature: -65°C to +260°C.

Operating Temperature: -65°C to 260°C.

ELECTRICAL CHARACTERISTICS

TYPE NUMBER	MIN. BV @ 100µA @ 25°C VOLTS	V _r VOLTS	MAX. I _r @ V _r @ 25°C PICO AMPS	MAX. I _r @ V _r @ 150°C NANO AMPS	MAX. I _r @ V _r @ 200°C MICRO AMPS	II @ 1.2V MA	MAX. Cap. @ 0V PF	MAX. Cap. @ 10V PF	Pkg.
MT 5100	75	20	10	50	1	100	6	3	B
MT 5101	75	20	20	100	2	100	6	3	B
MT 5102	75	20	10	50	1	80	6	3	B
MT 5103	75	20	20	100	2	80	6	3	B
MT 5139	60	50	50	75	1	100	6	3	B
MT 5140	110	100	125	125	2	100	6	3	B
MT2060	600	500	2000	6000	40	400	10	5	B
MT2060A	600	500	2000	6000	40	400	16	8	A
MT2061	600	500	1000	3000	20	400	10	5	B
MT2061A	600	500	1000	3000	20	400	16	8	A

MECHANICAL CHARACTERISTICS

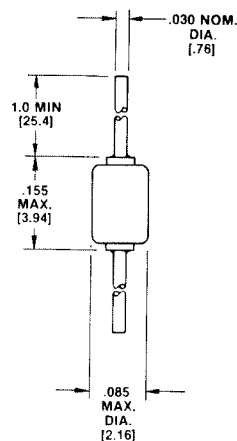
Case: Hermetically sealed glass case.

Lead Material: Tinned copper. (A package) (Copper Clad Steel — B package)

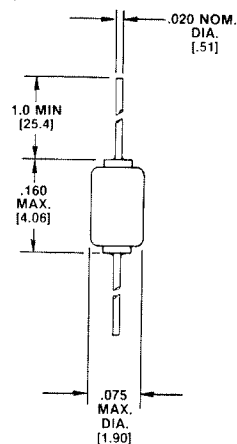
Marking: Body painted, alpha numeric.

Polarity: Cathode band.

PICO AMP LOW LEAKAGE DIODES



PACKAGE "A"



PACKAGE "B"

**MT5100 - MT5103
MT5139, MT5140,
MT2060, MT2060A
MT2061, MT2061A**

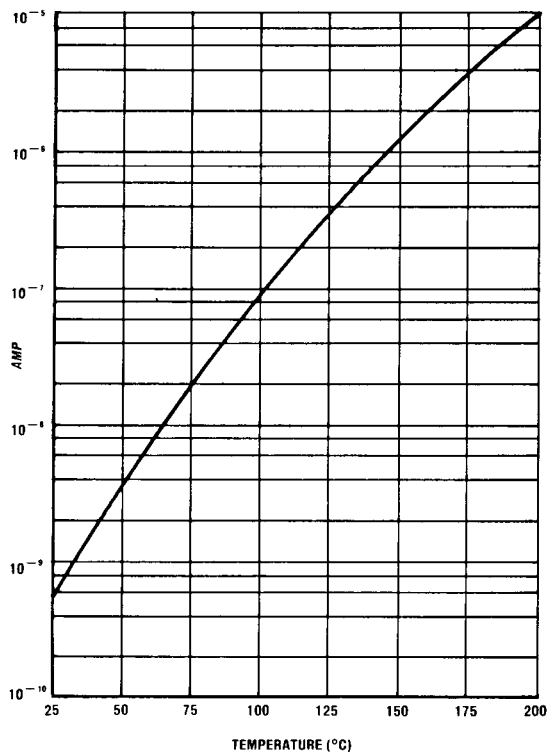


FIGURE 2
MAXIMUM I_r LIMIT @ 500V CURVE
(MT2060, MT2060A, MT2061, MT2061A)

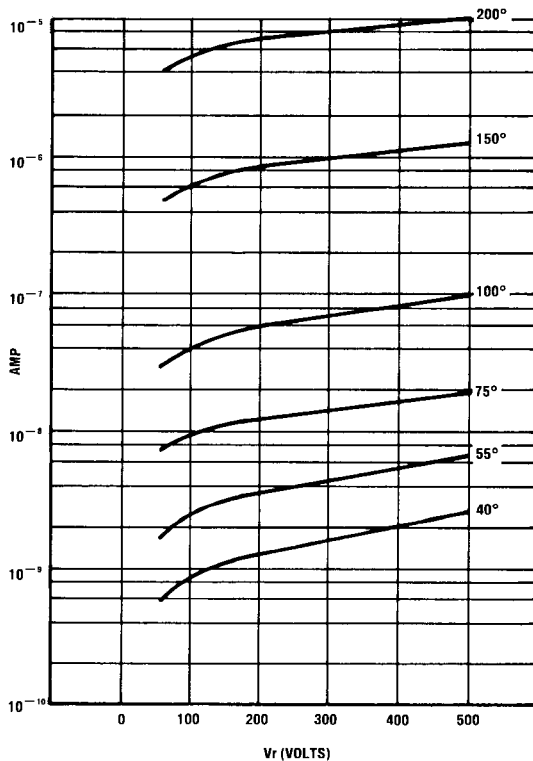


FIGURE 3
MAXIMUM I_r CURVES
(as applicable to maximum V_R)