

FEATURES

- Low cost.
- High current capability.
- Low leakage.
- Low forward voltage.
- High surge capability.
- JEDEC DO-41 molded plastic case.

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C.
Storage Temperature: -65°C to +175°C.

ELECTRICAL CHARACTERISTICS

TYPE	PEAK REVERSE VOLTAGE	MAX. RMS VOLTAGE	MAX. DC BLOCKING VOLTAGE	MAX. AVERAGE FORWARD RECTIFIED CURRENT	PEAK FORWARD SURGE CURRENT I_F (SURGE)	MAX. FORWARD VOLTAGE @ 1 A DC	MAX. DC REVERSE CURRENT @ RATED DC BLOCKING VOLTAGE	TYPICAL JUNCTION CAPACITANCE @ $V_R = 4V$	MAX. REVERSE RECOVERY TIME t_{rr}
	V	V	V	A	A	V	μA	pF	ns
MR1001	50	35	50	1.0	30	1.2	5.0	15	200
MR1002	100	70	100	1.0	30	1.2	5.0	15	200
MR1003	200	140	200	1.0	30	1.2	5.0	15	200
MR1004	400	280	400	1.0	30	1.2	5.0	15	200
MR1005	600	420	600	1.0	30	1.2	5.0	15	250
MR1006	800	560	800	1.0	30	1.2	5.0	15	500
MR1007	1000	700	1000	1.0	30	1.2	5.0	15	500

NOTE 1: Ratings at 25°C ambient temperature unless otherwise specified.

NOTE 2: Special fast recovery rectifiers also available.

NOTE 3: Reverse recovery test conditions:
 $I_F = 0.5A$, $I_{RM(REC)} = 1.0A$, and $I_R(REC) = 0.25A$

1A FAST RECOVERY RECTIFIERS

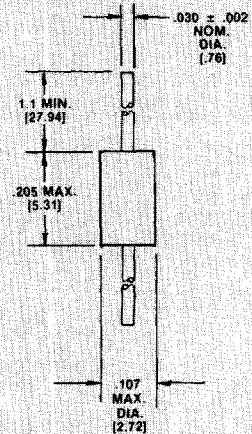


FIGURE 1

All dimensions in INCH
M.M.

MECHANICAL CHARACTERISTICS

- CASE:** Molded plastic (DO-41).
- LEAD MATERIAL:** Copper, plated tin.
- MARKING:** Body painted, alpha numeric.
- POLARITY:** Cathode band.

MR1001 thru MR1007

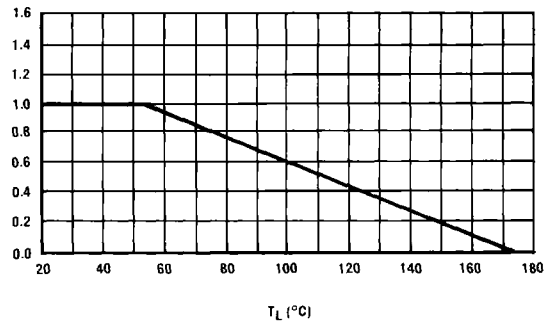


FIGURE 2
FORWARD CURRENT DERATING CURVE

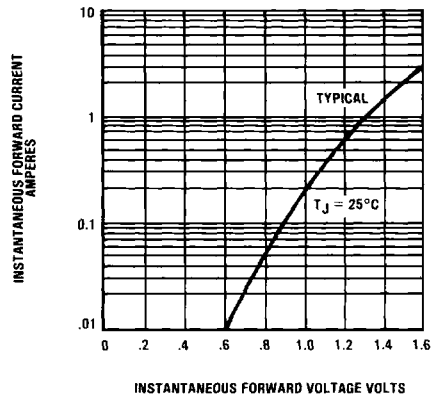


FIGURE 3
TYPICAL FORWARD VOLTAGE DROP Vs.
OUTPUT CURRENT (INSTANTANEOUS).