

Microsemi Corp.

The diode experts

SANTA ANA, CA

**ALSO
AVAILABLE IN
SURFACE
MOUNT**

**1N5400
thru
1N5408**

FEATURES

- Low cost.
- High current capability.
- Low leakage.
- Low forward voltage.
- High surge capability.
- JEDEC DO-27 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 @ 3A DC	MAX. DC REVERSE CURRENT @ RATED DC BLOCKING VOLTAGE	TYPICAL JUNCTION CAPACITANCE @ V _R = 4V
	V	V	V	A	A	V	µA	pF
1N5400	50	35	50	3.0	200	1.0	10	70
1N5401	100	70	100	3.0	200	1.0	10	70
1N5402	200	140	200	3.0	200	1.0	10	70
1N5403	300	210	300	3.0	200	1.0	10	70
1N5404	400	280	400	3.0	200	1.0	10	70
1N5405	500	350	500	3.0	200	1.0	10	70
1N5406	600	420	600	3.0	200	1.0	10	70
1N5407	800	560	800	3.0	200	1.0	10	70
1N5408	1000	700	1000	3.0	200	1.0	10	70

NOTE 1: Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

NOTE 2: Special silicon rectifiers also available.

3A PLASTIC SILICON RECTIFIERS

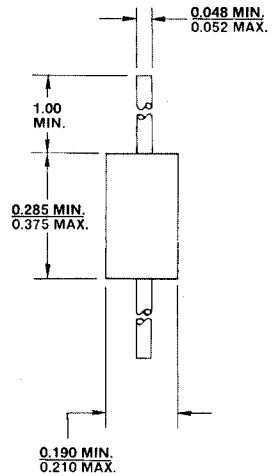


FIGURE 1

All Dimensions in INCHES

MECHANICAL CHARACTERISTICS

CASE: Molded plastic (DO-201AD)
LEAD MATERIAL: Copper, plated tin.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

1N5400 thru 1N5408

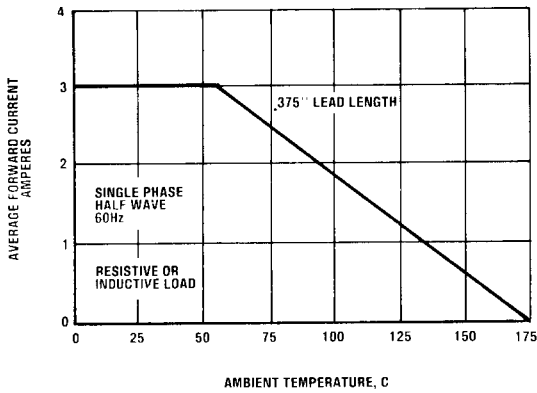


FIGURE 2
FORWARD DERATING CURVE

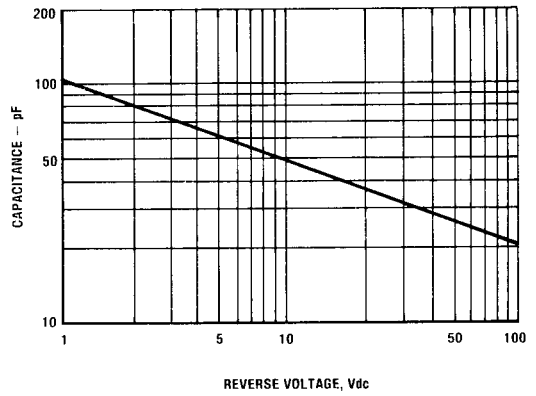


FIGURE 3
TYPICAL JUNCTION CAPACITANCE
vs. REVERSE VOLTAGE

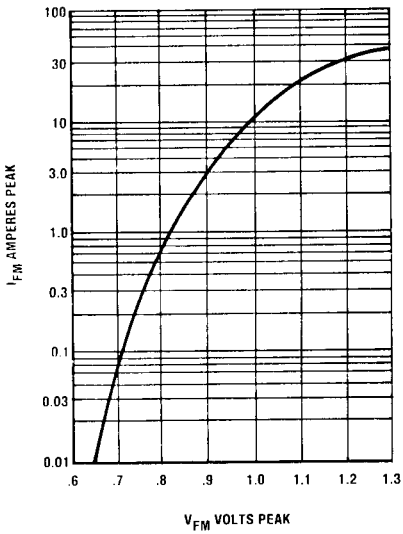


FIGURE 4
TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

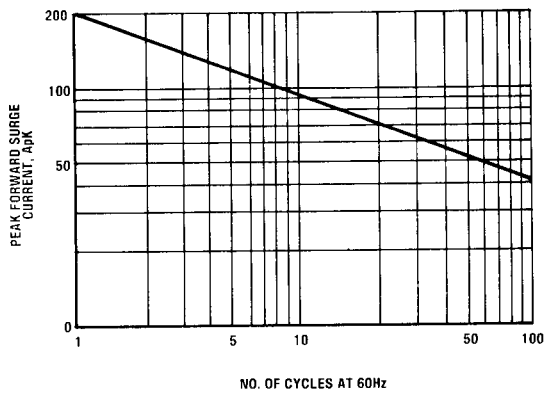


FIGURE 5
MAXIMUM NON REPETITIVE SURGE CURRENT