

Glass/Silicon Passivated Rectifiers
 Type PR - 1N5400(G/S) Thru 1N5408G(G/S)
 Reverse Voltage - 50 to 1000 Volts
 Forward Current - 3.0 Amperes

△ Features

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

△ Mechanical Data

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.1 grams
- Mounting position: Any

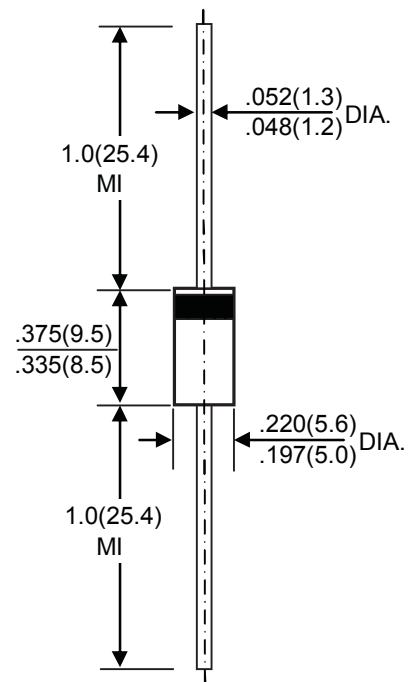
△ Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%

DO-27

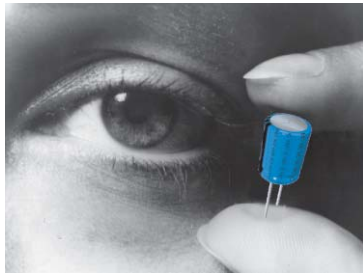


Dimensions in inches and (millimeters)

CHARACTERISTICS	SYMBOL	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =55°C	I _(AV)	3.0									A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Supe Imposed on Rated Load(JEDEC Method)	I _{FSM}	200									A
Maximum Forward Voltage at 3.0A DC	V _F	1.2									V
Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =100 °C	I _R	5.0									uA
Typical Junction Capacitance (Note1)	C _J	50						35			pF
Typical Thermal Resistance (Note2)	R _{θJA}	15									°C/W
Operating Temperature Range	T _J	-55 to +150									°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 2.Thermal resistance junction of ambient.

Fixed Component Diodes



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Δ Rating and Characteristics Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

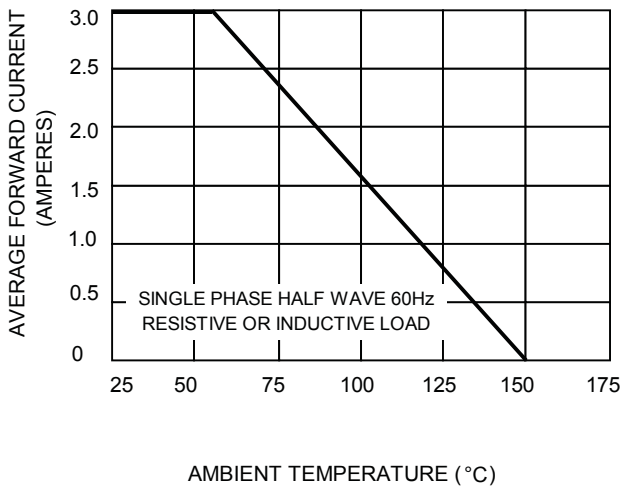


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

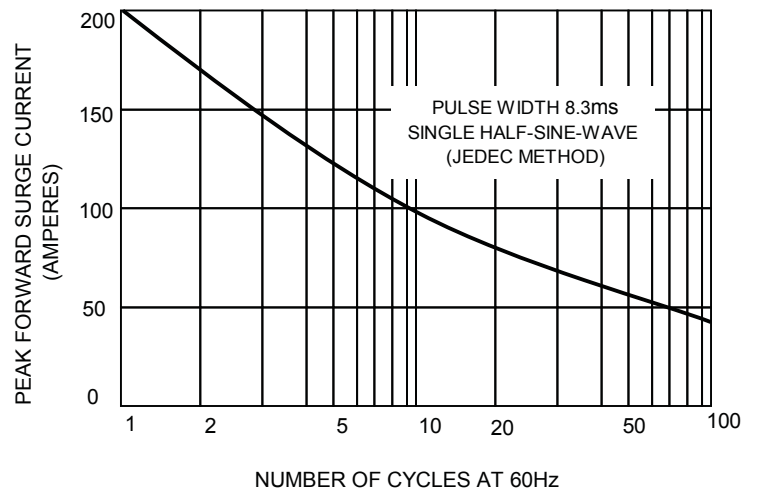


FIG.3 – TYPICAL JUNCTION CAPACITANCE

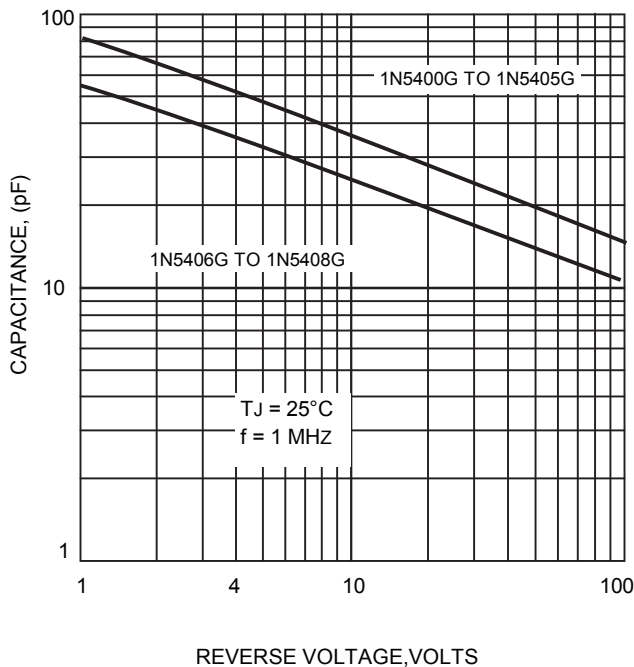
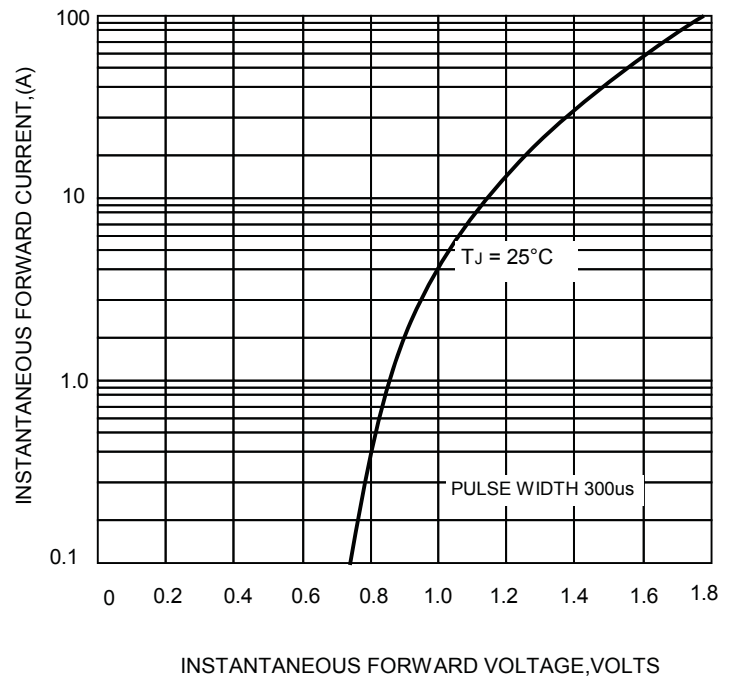


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Fixed Component Diodes