

1N5400 ~ 1N5408

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds
/.0375" (9.5mm) lead length
- RoHS and REACH Compliant



**DO201AD
(DO-27)**



MECHANICAL DATA

Case	DO-201AD(DO-27), transfer molded plastic
Epoxy	Meets UL 94V-0 flammability rating
Terminals	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity	Cathode indicated by color band
Mounting position	Any
Weight	0.04 Ounce, 1.12 gram

MAXIMUM RATINGS (T_{Ambient}=25°C unless noted otherwise)

Parameter [Conditions]	Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit
Max Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Max RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Max DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max Average Forward Rectified Current [.0375" (9.5mm) lead length at T _A =75°C]	I _{F(AV)}	3.0							A
Peak Forward Surge Current [8.3ms single half sine-wave (JEDEC)]	I _{FSM}	200							A
Max Full Load Reverse Current [Full cycle average .0375" (9.5mm) lead length]	I _{R(AV)}	10							μA
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to +150							°C

ELECTRICAL CHARACTERISTICS (T_{Ambient}=25°C unless noted otherwise)

Parameter [Conditions]	Symbol	1N 5400	1N 5401	1N 5402	1N 5404	1N 5406	1N 5407	1N 5408	Unit
Max Instantaneous Forward Voltage [I _{F(AV)} =3.0A]	V _F	1.1							V
Max DC Reverse Current at Rated DC Blocking Voltage [T _A =25°C] [T _A =100°C]	I _R	5 100							μA
Typical Junction Capacitance [At 1MHz, reversed voltage of 4V]	C _J	50							pF
Typical Thermal Resistance [Note 2]	R _{θJA}	30							°C/W

- Note : (1) Single phase, half wave, 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
(2) Thermal resistance from junction to ambient at .375" (9.5mm) lead length, PCB mounted with copper pad area of 0.2" x 0.2" (5x5mm).

TYPICAL CHARACTERISTICS CURVES

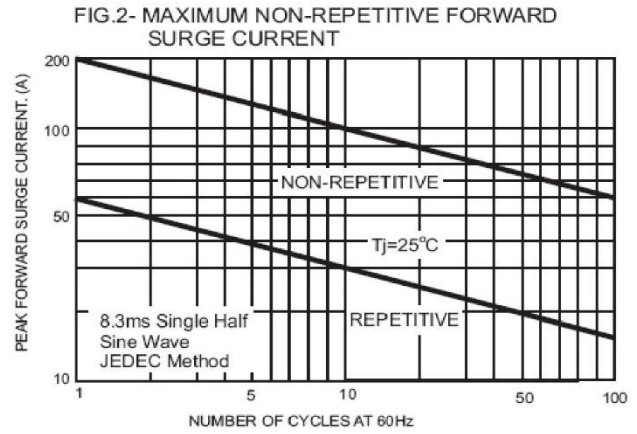
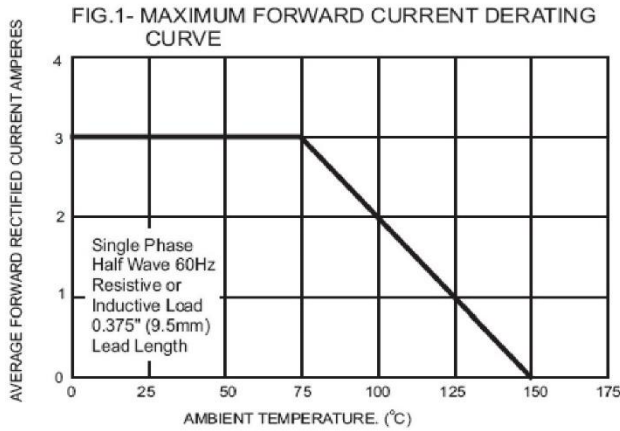


FIG.3- TYPICAL FORWARD CHARACTERISTICS

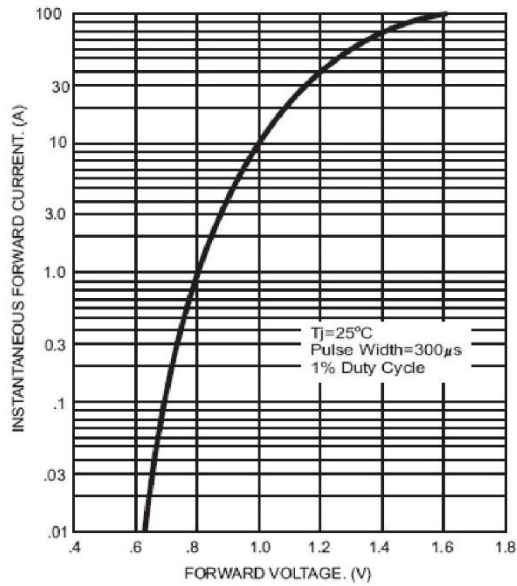


FIG.4- TYPICAL JUNCTION CAPACITANCE

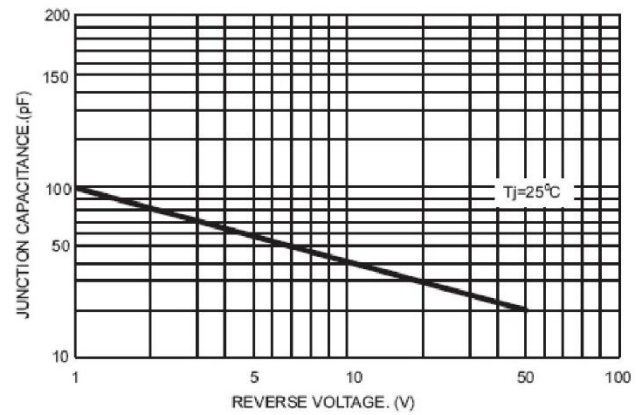
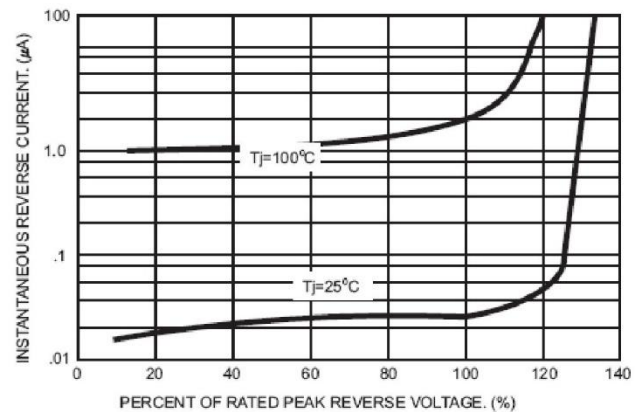
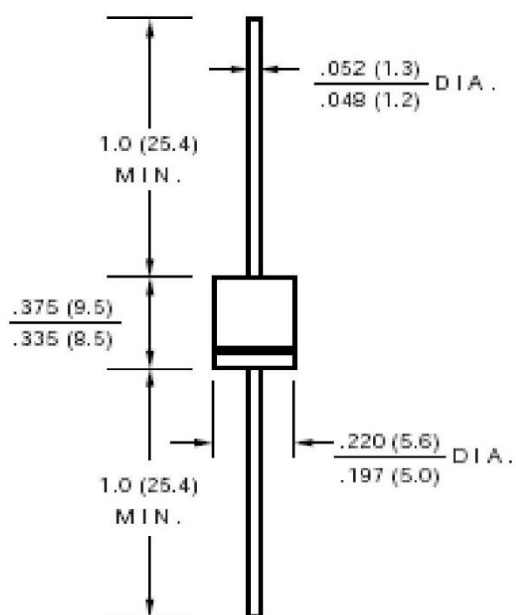


FIG.5- TYPICAL REVERSE CHARACTERISTICS



DIMENSIONS in inch (mm)

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(DO-27)