1N5400 THRU 1N5408

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

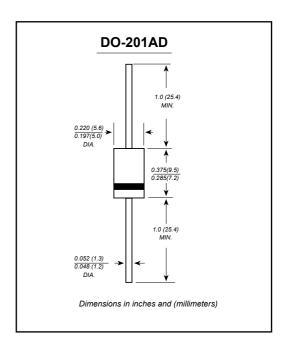
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.04 ounce, 1.10 grams





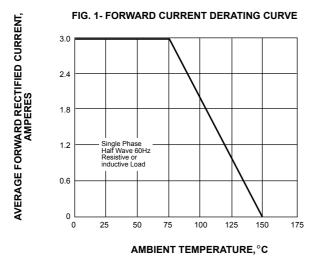
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

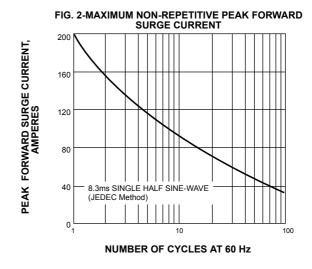
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

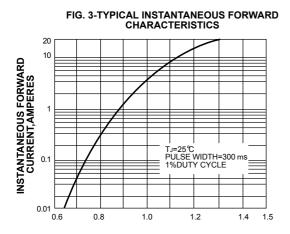
Characteristic	SYMBOLS	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75°C	l _(AV)	3.0								Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	200								А	
Maximum instantaneous forward voltage at 3.0A	VF	1.1								V	
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 100								μА	
Typical junction capacitance (NOTE 1)	Cı		30.0								pF
Typical thermal resistance (NOTE 2)	Rθja		20.0								°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150								°C	

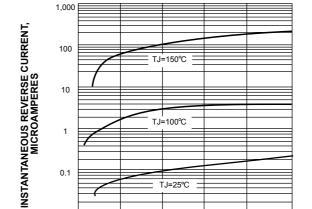
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted









0.01

20

INSTANTANEOUS FORWARD VOLEAGE, VOLTS

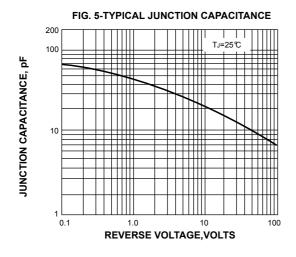
PERCENT OF PEAK REVERSE VOLTAGE,%

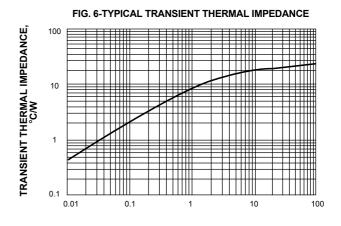
60

100

40

FIG. 4-TYPICAL REVERSE CHARACTERISTICS





 $t, \hbox{\tt PULSE DURATION}, \hbox{\tt sec}.$