

1N5400 THRU 1N5408

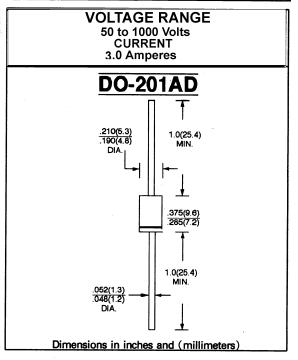
3.0 AMPS. SILICON RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA ~

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 1.18 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%

TYPE NUMBER	SYMBOLS	IN 5400	IN 5401	IN 5402	IN 5404	IN 5406	IN 5407	IN 5408	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum D.C Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ T _A = 75℃	I _{F(AV)}	3.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	200							Α
Maximum Instantaneous Forward Voltage at 3.0A	V _F	1.0						٧	
Maximum D. C Reverse Current ② T _A = 25℃ at Rated D. C Blocking Voltage ② T _A = 100℃	l _R	5.0 50.0							μ Α μ Α
Typical Junction Capacitance (Note 1)	င	50							рF
Typical Thermal Resistance (Note 2)	R _{OJA}		18						
Operating Temperature Range	TJ	- 65 to + 125							જ
Storage Temperature Range	T _{STG}	- 65 to + 150							℃

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

2. Thermal Resistance from Junction to Ambient 0.375"(9.5mm)Lead Length.



RATINGS AND CHARACTERISTIC CURVES (1N5400 THRU 1N5408)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

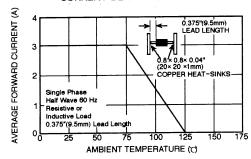


FIG.2 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT

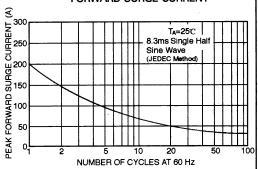


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

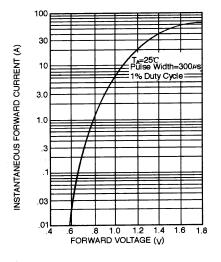


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

