

1N5400 THRU 1N5408

SILICON RECTIFIERS

FEATURES:

- Low cost
- High surge current capability
- Low leakage current
- Low forward voltage drop
- Diffused junction

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

MECHANICAL DATA

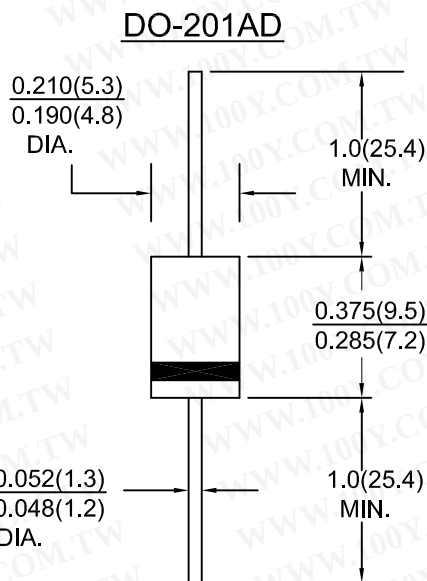
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.2 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum average forward rectified current at $T_L=105^{\circ}C$	I_O	3.0									Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	200									Amps
Maximum instantaneous forward voltage drop at 3.0 A	V_F	1.1									Volts
Maximum DC reverse current at rated DC blocking voltage $T_a=25^{\circ}C$ $T_a=125^{\circ}C$	I_R	10 500									μA
Maximum full load reverse current, full cycle average .375"(9.5mm) lead length $T_L=70^{\circ}C$	$I_{R(AV)}$	30									μA
Typical junction capacitance	C_j	50									pF
Typical thermal resistance	R_{th-JA}	18									$^{\circ}C/W$
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +125				-65 to +150					$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES 1N5400 THRU 1N5408

