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# Dioda 1N5403 CE DO-27 3A; 300V



## Dane techniczne:

Nazwa: 1N5403

Typ diody: prostownicza

Rodzaj obudowy diody: DO-27

Prąd: 3A

Napięcie: 300V

Montaż: przewlekany

[www.podzespoly-elektroniczne.pl](http://www.podzespoly-elektroniczne.pl)

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## FEATURES:

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

## MECHANICAL DATA

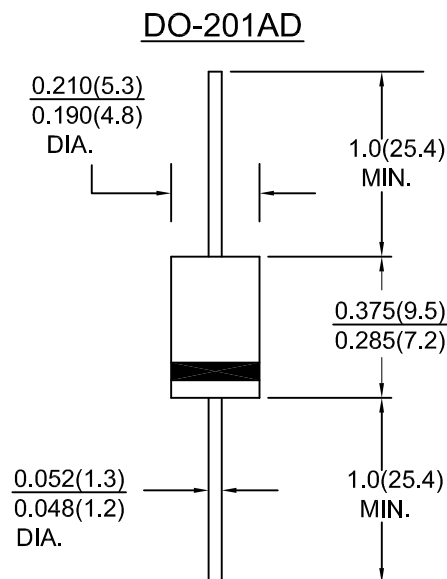
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

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.

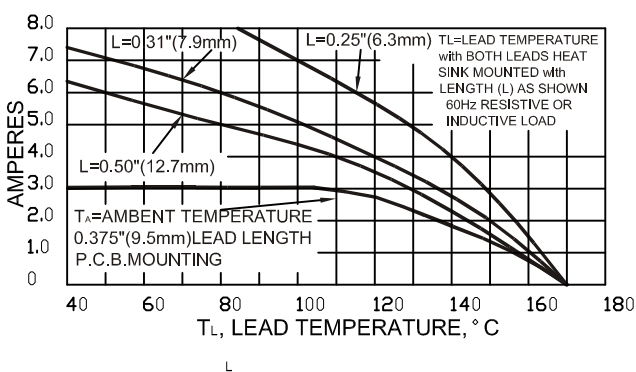
For capacitive load, derate current by 20 %.

| Characteristic                                                                                                  | Symbol         | 1N<br>5400  | 1N<br>5401 | 1N<br>5402 | 1N<br>5403 | 1N<br>5404 | 1N<br>5405  | 1N<br>5406 | 1N<br>5407 | 1N<br>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<br>at $T_L=105^\circ\text{C}$                                         | $I_O$          | 3.0         |            |            |            |            |             |            |            |            | Amps               |
| Peak forward surge current ,8.3ms single half sine-wave<br>superimposed on rated load(JEDEC Method)             | $I_{FSM}$      | 200         |            |            |            |            |             |            |            |            | Amps               |
| Maximum instantaneous forward voltage drop<br>at 3.0 A                                                          | $V_F$          | 1.1         |            |            |            |            |             |            |            |            | Volts              |
| Maximum DC reverse current<br>at rated DC blocking voltage<br>$T_a=25^\circ\text{C}$<br>$T_a=125^\circ\text{C}$ | $I_R$          | 10<br>500   |            |            |            |            |             |            |            |            | $\mu\text{A}$      |
| Maximum full load reverse current, full cycle average<br>.375"(9.5mm) lead length $T_L=70^\circ\text{C}$        | $I_{R(AV)}$    | 30          |            |            |            |            |             |            |            |            | $\mu\text{A}$      |
| Typical junction capacitance                                                                                    | $C_j$          | 50          |            |            |            |            |             |            |            |            | pF                 |
| Typical thermal resistance                                                                                      | $R_{th-JA}$    | 18          |            |            |            |            |             |            |            |            | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range                                                                | $T_j, T_{stg}$ | -65 to +125 |            |            |            |            | -65 to +150 |            |            |            | $^\circ\text{C}$   |

# RATINGS AND CHARACTERISTIC CURVES 1N5400 THRU 1N5408

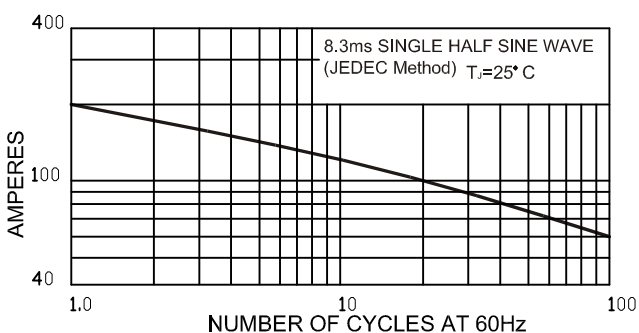
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT



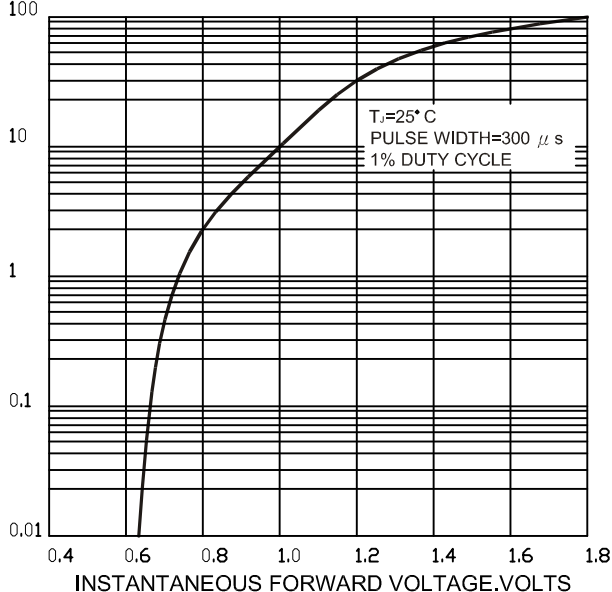
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



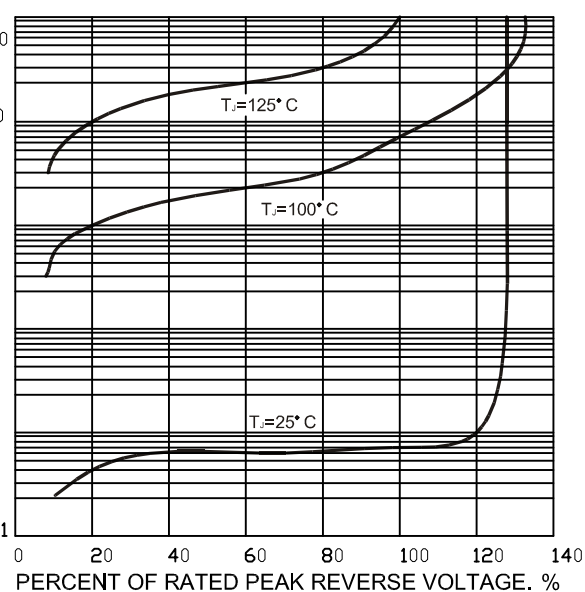
INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG.4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG.5-TYPICAL JUNCTION CAPACITANCE

