1N5400G THRU 1N5408G

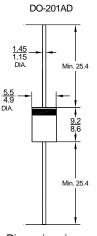
GLASS PASSIVATED SILICON RECTIFIERS Reverse Voltage - 50 to 1000 V Forward Current - 3 A

Features

- · High current capability
- · Glass passivated junction
- Low forward voltage drop
- Low reverse leakage
- The plastic package carries UL flammability classification 94V-0

Mechanical Data

- Case: Molded plastic, DO-201AD (DO-27)
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: color band denotes cathode end
- Mounting Position: Any



Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings 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%.

Parameter	Symbols	1N5400G	1N5401G	1N5402G	1N5403G	1N5404G	1N5405G	1N5406G	1N5407G	1N5408G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at $T_A = 75$ °C	I _{F(AV)}	3									Α
Peak Forward Surge Current, 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load at $T_j = 125 ^{\circ}\text{C}$	I _{FSM}	200								А	
Maximum Forward Voltage at 3 A DC	V_{F}	1.1						V			
$ \begin{array}{ll} \mbox{Maximum Reverse Current} & T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{\scriptsize C} \\ \mbox{at Rated DC Blocking Voltage} & T_{\mbox{\scriptsize A}} = 100^{\circ}\mbox{\scriptsize C} \\ \end{array} $	I _R	10 100								μA	
Typical Junction Capacitance 1)	CJ	35									pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	20								°C/W	
Operating Junction Temperature Range	Tj	- 55 to + 175									°C
Storage Temperature Range	T _{stg}	- 55 to + 175									°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.



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²⁾ Thermal resistance from junction to ambient.

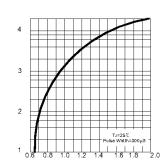
FIG.1 -FORWARD CURRENT DERATING CURVE

AVERAGE FORWARD CURRENT, AMPERES Single Phase__ Half Wave 60Hz Resistive or Inductive Load 100 125

AMBIENT TEMPERATURE, °C

150

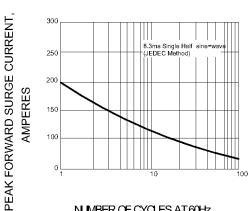
FIG.2-TYPICAL FORWARD CHARACTERISTIC

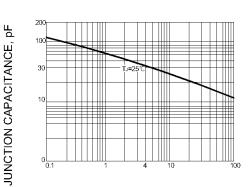


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4 - TYPICAL JUNCTION CAPACITANCE

FIG.3 -- PEAK FORWARD SURGE CURRENT



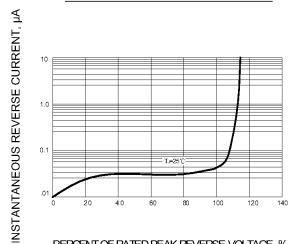


NUMBER OF CYCLES AT 60Hz

REVERSE VOLTAGE, VOLTS

FIG.5 - TYPICAL REVERSE CHARCTERISTICS

NSTANTANEOUS FORWARD CURRENT



PERCENT OF RATED PEAK REVERSE VOLTAGE, %



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