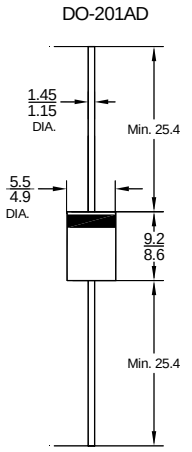
1N5400G THRU 1N5408G

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



Dimensions in mm

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

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									A
Peak Forward Surge Current, 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load at T_j = 125 °C	I_{FSM}	200									A
Maximum Forward Voltage at 3 A DC	V_F	1.1									V
Maximum Reverse Current T_A = 25 °C at Rated DC Blocking Voltage T_A = 100 °C	I_R	10 100									µA
Typical Junction Capacitance [1]	C_J	35									pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	20									°C/W
Operating Junction Temperature Range	T_j	- 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.

[2] Thermal resistance from junction to ambient.

FIG.1 –FORWARD CURRENT DERATING CURVE

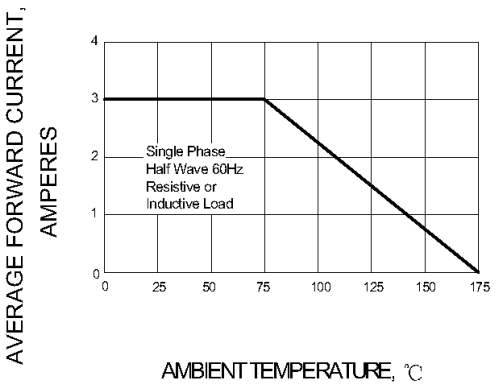


FIG.2–TYPICAL FORWARD CHARACTERISTIC

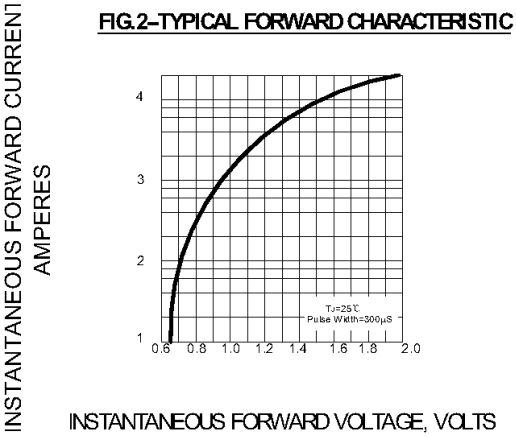


FIG.3 -- PEAK FORWARD SURGE CURRENT

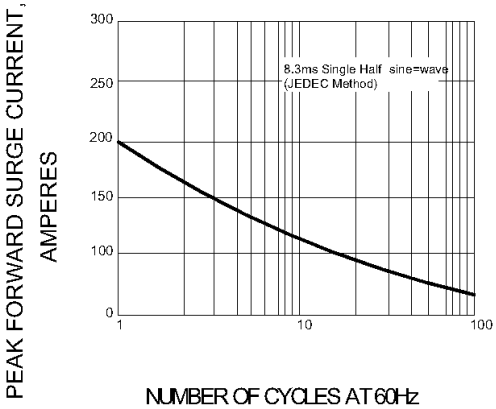


FIG.4 – TYPICAL JUNCTION CAPACITANCE

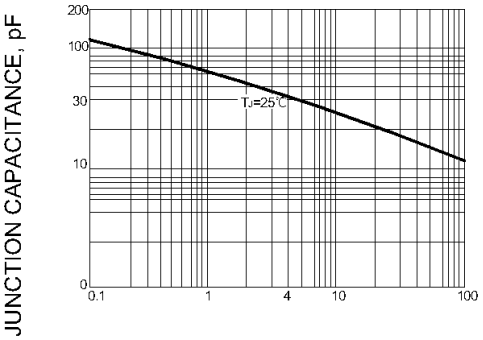


FIG.5 – TYPICAL REVERSE CHARCTERISTICS