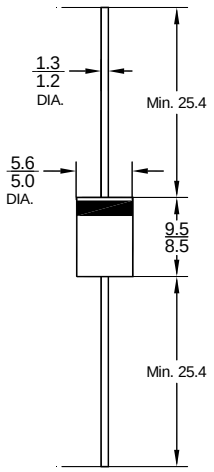
1N5400G THRU 1N5408G

GLASS PASSIVATED SILICON RECTIFIERS

Reverse Voltage - 50 to 1000 V
Forward Current - 3 A

DO-201AD



Dimensions in mm

Features

- High current capability
- Glass passivated junction
- Low forward voltage drop
- Low reverse leakage

Mechanical Data

- Case: Molded plastic, DO-201AD
- 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 = 50 °C	$I_{F(AV)}$	3									A
Peak Forward Surge Current, 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load	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 = 125 °C	I_R	5 50									μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	20									°C/W
Typical Thermal Resistance, Junction to Lead	$R_{\theta JL}$	10									°C/W
Operating Junction Temperature Range	T_j	- 55 to + 150									°C
Storage Temperature Range	T_{stg}	- 55 to + 150									°C

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FIG.1
FORWARD CURRENT DERATING CURVE

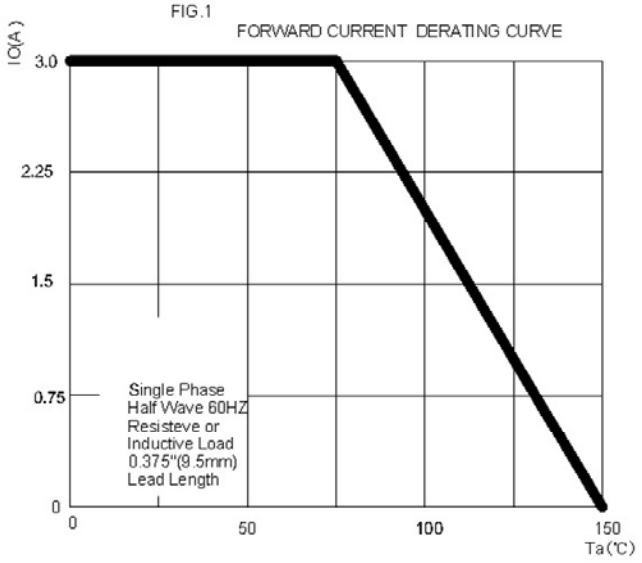

FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

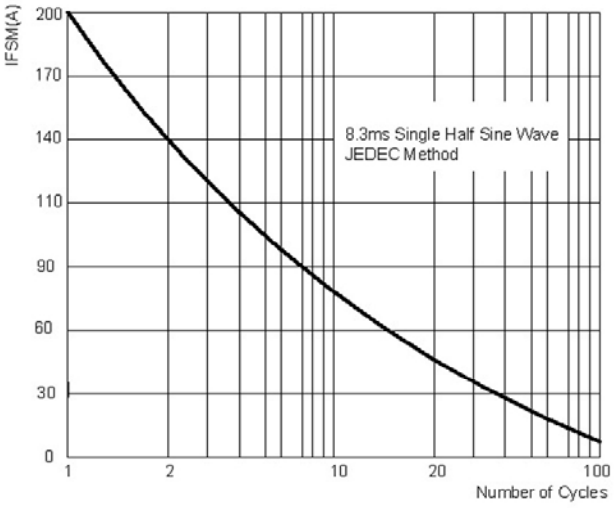

FIG.3: TYPICAL FORWARD CHARACTERISTICS

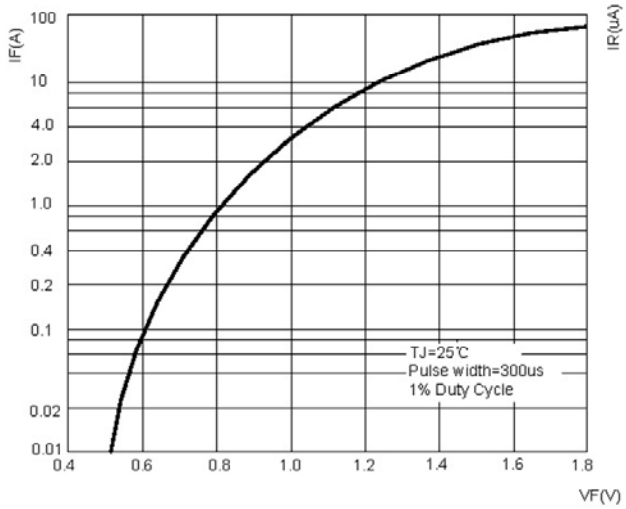

FIG.4: TYPICAL REVERSE CHARACTERISTICS