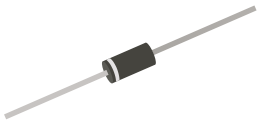
General Purpose Silicon Rectifiers

A1N5404G-G

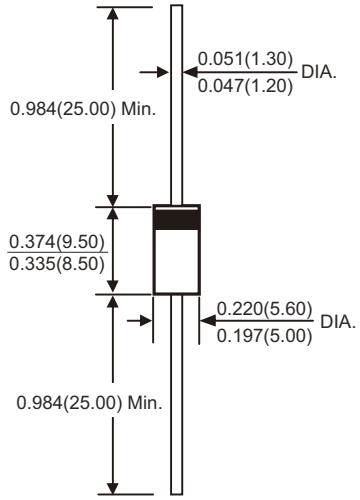
Voltage: 400 V
Current: 3.0 A
RoHS Device



Features

- Glass passivated rectifiers.
- Low forward voltage drop.
- Low reverse leakage current.
- High current capability.
- AEC-Q101 Qualified.

DO-27



Dimensions in inches and (millimeter)

Mechanical data

- Case: JEDEC DO-27 molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: Color band denotes cathode.
- Mounting position: Any.

Circuit Diagram

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter		Symbol	A1N5404G-G	Unit
Maximum recurrent peak reverse voltage		V_{RRM}	400	V
Maximum RMS voltage		V_{RMS}	280	V
Maximum DC blocking voltage		V_{DC}	400	V
Maximum average forward rectified current	@T_A=55°C	$I_{F(AV)}$	3.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	125	A
Maximum forward voltage @3.0A DC		V_F	1.1	V
Maximum DC reverse current at rated DC blocking voltage	@T_J=25°C	I_R	5.0	μA
	@T_J=100°C		200	
Typical junction capacitance (Note 1)		C_J	50	pF
Typical thermal resistance (Note 2)		$R_{\theta JA}$	15	°C/W
Operating temperature range		T_J	-55 to +150	°C
Storage temperature range		T_{STG}	-55 to +150	°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance junction to ambient.

Rating and Characteristic Curves (A1N5404G-G)

Fig.1 - Forward Current Derating Curve

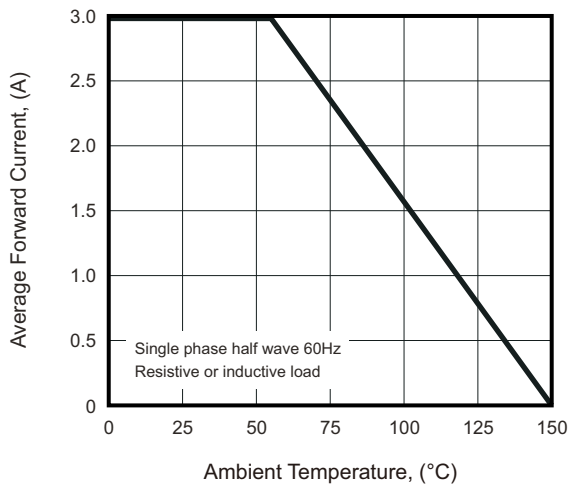


Fig.2 - Max. Non-repetitive Surge Current

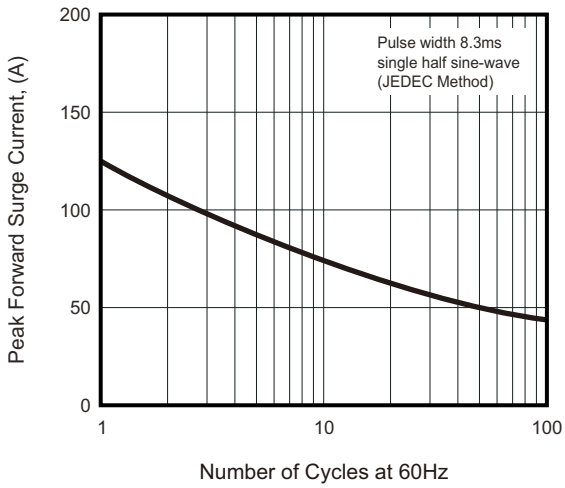


Fig.3 - Typical Junction Capacitance

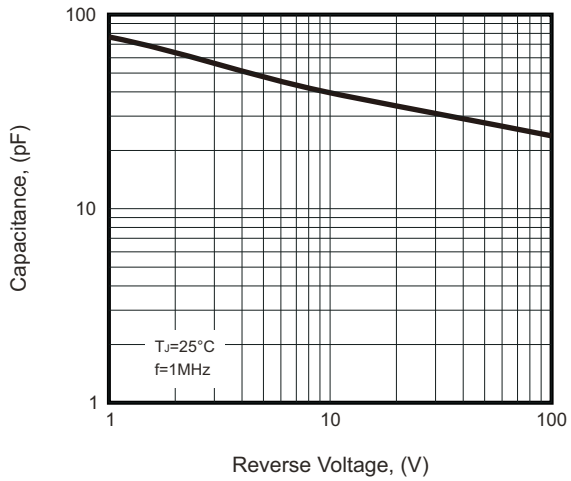
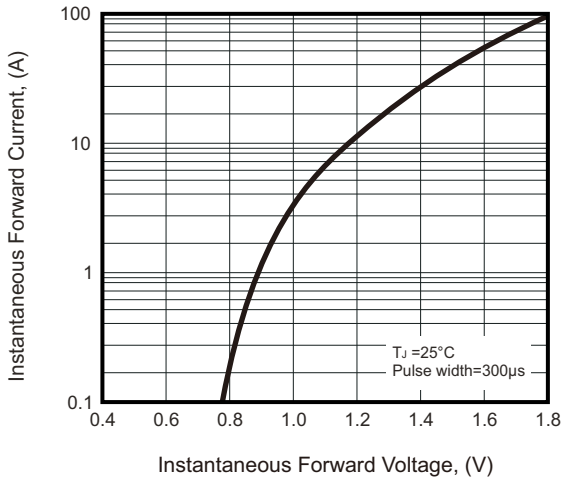


Fig.4 - Typical Forward Characteristics



Marking Code

Part Number	Marking code
A1N5404G-G	1N5404G

XX = Product type marking code

Standard Packaging

Case Type	AMMO PACK
	BOX (pcs)
DO-27 (DO-201AD)	1,200