

Glass Passivated Rectifiers

FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Weight: 0.4g (approximately)



DO-204AC (DO-15

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25℃ unless otherwise noted)									
PARAMETER	SYMBOL	2A 01G	2A 02G	2A 03G	2A 04G	2A 05G	2A 06G	2A 07G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	2				Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	70					Α		
Maximum instantaneous forward voltage (Note 1) @ 2 A	V _F	1	1.1 1.0				V		
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 100				μΑ			
Typical junction capacitance (Note 2)	Cj	15			pF				
Typical thermal resistance	$egin{array}{c} {\sf R}_{ heta {\sf JC}} \ {\sf R}_{ heta {\sf JA}} \end{array}$	22 25 60			°C/W				
Operating junction temperature range	T _J	- 55 to +150			οС				
Storage temperature range	T _{STG}	- 55 to +150					οС		

Note 1: Pulse test with PW=300 µs, 1% duty cycle

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
2400		A0		DO-15	1,500 / Ammo box		
2A0xG (Note 1)	Prefix "H"	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel		
(14010-1)		В0		DO-15	1,000 / Bulk packing		

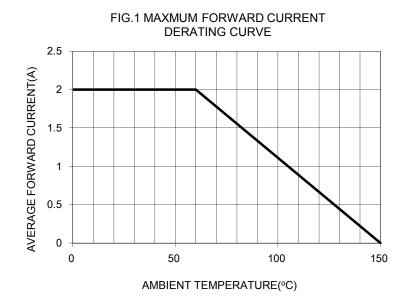
Note 1: "x" defines voltage from 50V (2A01G) to 1000V (2A07G)

EXAMPLE							
PREFERRED P/N	PART NO.		PACKING CODE	GREEN COMPOUND	DESCRIPTION		
		QUALIFIED		CODE			
2A01G A0	2A01G		A0				
2A01G A0G	2A01G		A0	G	Green compound		
2A01GHA0	2A01G	Н	A0		AEC-Q101 qualified		

0

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

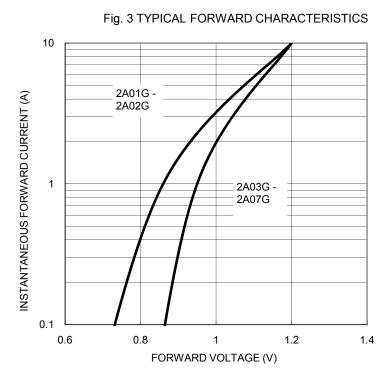


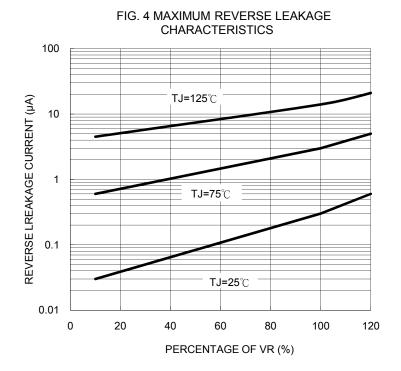
70 PEAK FORWARD SURGE CURRENT(A) 60 50 40 30 20 10

10

NUMBER OF CYCLES AT 60 Hz

FIG. 2 MAXIMUM FORWARD SURGE CURRENT

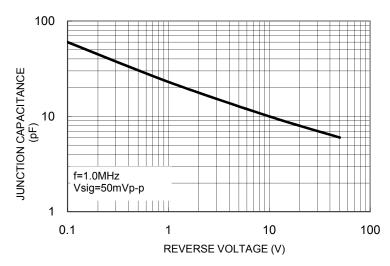




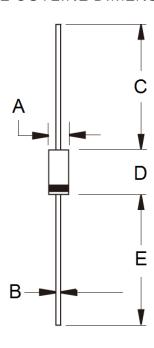
100



FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	2.60	3.60	0.102	0.142		
В	0.70	0.90	0.028	0.035		
С	25.40	-	1.000	-		
D	5.80	7.60	0.228	0.299		
Е	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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