



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



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)
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°ℂ unless otherwise noted)									
PARAMETER	SYMBOL	1N 5391G	1N 5392G	1N 5393G	1N 5395G	1N 5397G	1N 5398G	1N 5399G	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)}	1.5							Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50					Α		
Maximum instantaneous forward voltage (Note 1) @ 1.5 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	$R_{\theta jA}$	ia 65			°C/W				
Operating junction temperature range	TJ	55 to +150			οС				
Storage temperature range	T _{STG}	- 55 to +150						оС	

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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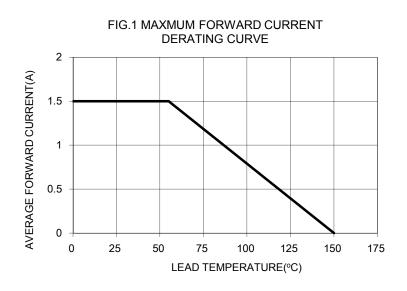
ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
1N539xG (Note 1)	Prefix "H"	A0		DO-15	1,500 / Ammo box		
		R0	Suffix "G"	DO-15	3,500 / 13" Paper reel		
		B0		DO-15	1,000 / Bulk packing		

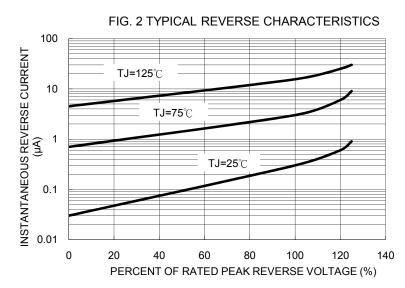
Note 1: "x" defines voltage from 50V (1N5391G) to 1000V (1N5399G)

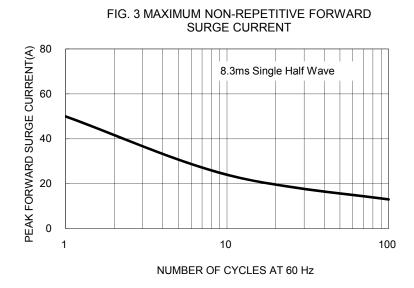
EXAMPLE								
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
1N5391G A0	1N5391G		A0					
1N5391G A0G	1N5391G		A0	G	Green compound			
1N5391GHA0	1N5391G	Н	A0		AEC-Q101 qualified			

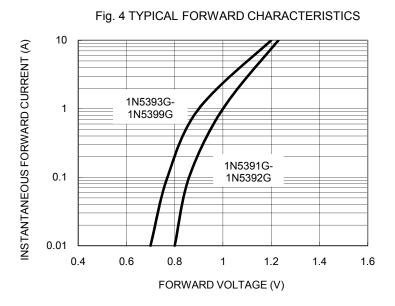
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





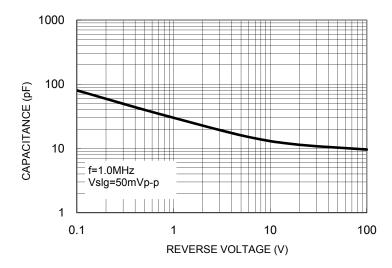




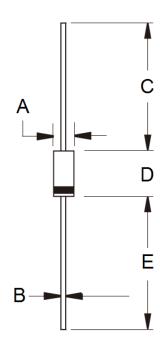
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FIG. 5 TYPICAL JUNCTION CAPACITANCE



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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