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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	1 N 5395 G	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	$R_{\theta jA}$	65			°C/W				
Operating junction temperature range	TJ	J - 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.

Document Number: DS_D1405013



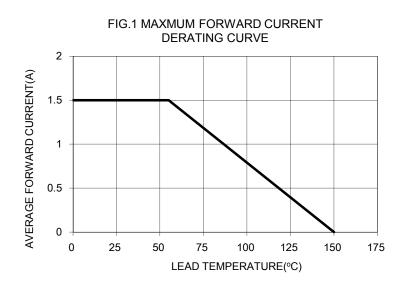
ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
4NE200		A0		DO-15	1,500 / Ammo box		
1N539xG (Note 1)	Prefix "H"	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel		
(14010-1)		B0		DO-15	1,000 / Bulk packing		

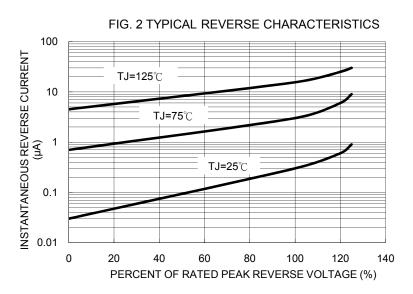
Note 1: "x" defines voltage from 50V (1N5391G) to 1000V (1N5399G)

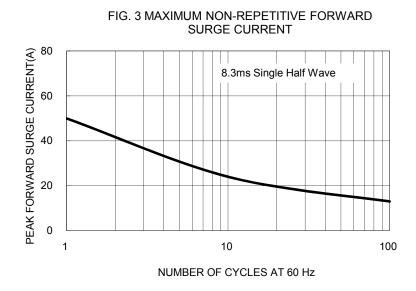
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
1N5391G A0	1N5391G		A0				
1N5391G A0G	1N5391G		A0	G	Green compound		
1N5391GHA0	1N5391G	Н	A0		AEC-Q101 qualified		

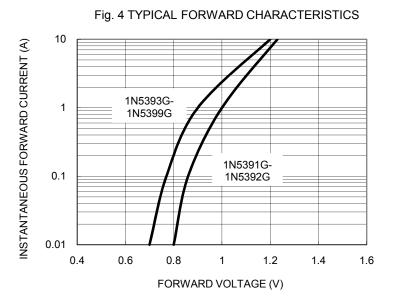
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







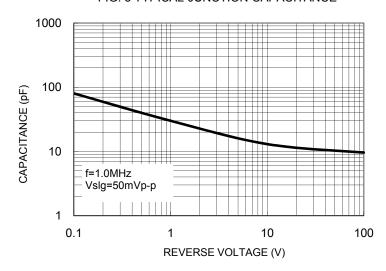


Version: E14

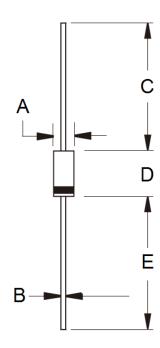
Document Number: DS_D1405013



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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