



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)







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			А				
Maximum instantaneous forward voltage (Note 1) @ 1.5 A	V _F	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	- 55 to +150		οС					
Storage temperature range	T _{STG}	- 55 to +150				οС			
Note 1: Dules test with DM-200 us, 10/, duty avale	-	-							

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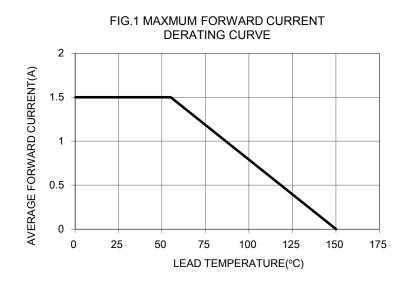
ORDERING INFORMATION							
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
	QUALIFIED		CODE				
4NE200		A0		DO-15	1,500 / Ammo box		
1N539xG (Note 1)	Prefix "H"	R0	Suffix "G"	DO-15	3,500 / 13" Paper reel		
(14010-1)		B0		DO-15	1,000 / Bulk packing		

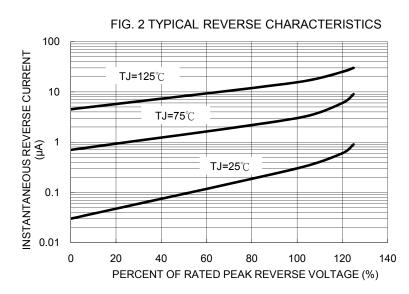
Note 1: "x" defines voltage from 50V (1N5391G) to 1000V (1N5399G)

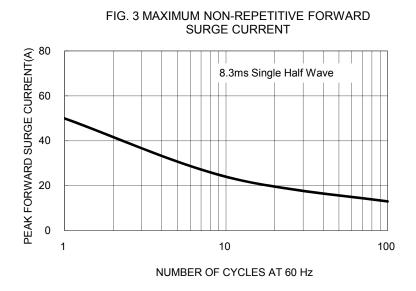
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
1N5391G A0	1N5391G		A0				
1N5391G A0G	1N5391G		A0	G	Green compound		
1N5391GHA0	1N5391G	Н	A0		AEC-Q101 qualified		

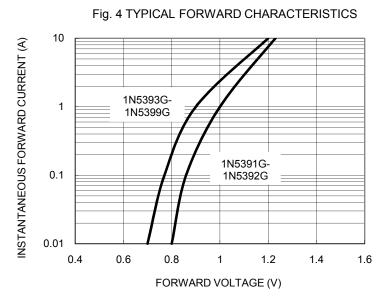
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





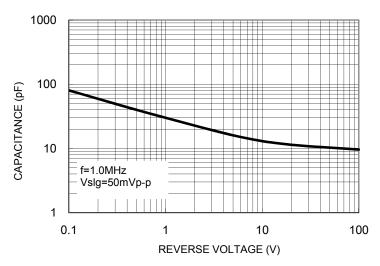




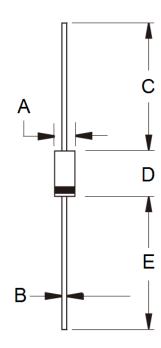
Version: E14



FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



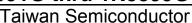
DIM.	Unit	(mm)	Unit (inch)			
Dilvi.	Min	Max	Min	Max		
Α	2.60	3.60	0.102	0.142		
В	0.70	0.90	0.028	0.035		
С	25.40	-	1.000	-		
D	5.80	7.60	0.228	0.299		
E	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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