

Glass Passivated Rectifiers

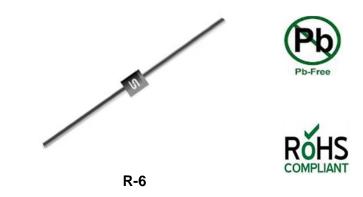
FEATURES

- Glass passivated chip junction
- High current capability, Low VF
- High reliability
- 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: R-6

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:** 1.65 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	6A	6A	6A	6A	6A	6A	6A	UNIT
		05G	10G	20G	40G	60G	80G	100G	
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)}			6				Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}		250				A		
Maximum instantaneous forward voltage (Note 1) @ 6 A	V _F	1	.1	1.0				V	
Maximum reverse current @ rated VR $T_J=25 \degree C$ $T_J=125 \degree C$	I _R	10 100				μA			
Typical junction capacitance (Note 2)	Cj	60					pF		
Typical thermal resistance	R _{θjA}	35				^o C/W			
Operating junction temperature range	TJ	- 55 to +150				°C			
Storage temperature range	T _{STG}	- 55 to +150					О ^О		

Note 1: Pulse Test with PW=300µs, 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	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
NO.	QUALIFIED		CODE			
6A0xG (Note 1)	Prefix "H"	A0		R-6	700 / Ammo box	
		R0	Suffix "G"	R-6	1,000 / 13" Paper reel	
		B0	1	R-6	400 / Bulk packing	

Note 1: "x" defines voltage from 50V (6A05G) to 1000V (6A100G)

EXAMPLE								
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
6A05G A0	6A05G		A0					
6A05G A0G	6A05G		A0	G	Green compound			
6A05GHA0	6A05G	Н	A0		AEC-Q101 qualified			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

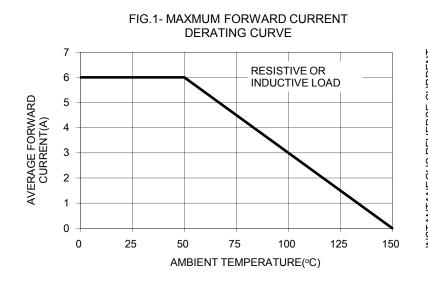


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD

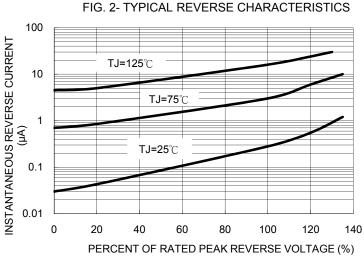
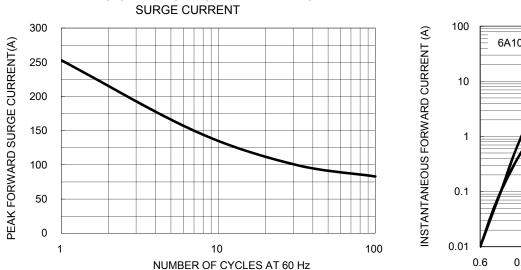
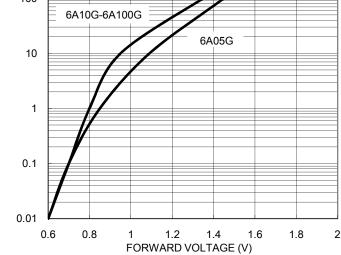
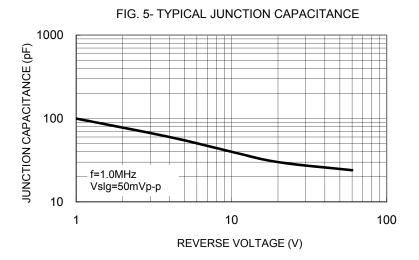


FIG. 4- TYPICAL FORWARD CHARACTERISTICS

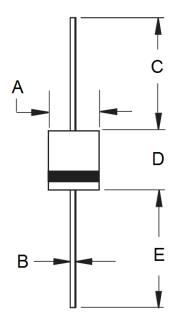








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
	Min	Max	Min	Max		
А	6.80	7.20	0.268	0.283		
В	1.20	1.30	0.047	0.051		
С	25.40	-	1.000	-		
D	8.60	9.10	0.339	0.358		
Е	25.40	-	1.000	-		

MARKING DIAGRAM



- Specific Device Code P/N =G =
 - Green Compound
- YWW = Date Code
- F = Factory Code



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 6A05G
 6A100G
 6A10G
 6A20G
 6A40G
 6A60G
 6A80G
 6A80G
 6A10GHR0
 6A80GHR0
 6A40GHR0

 6A40GHR0G
 6A80GHR0G
 6A100G
 ROG
 6A20GHR0G
 6A20GHR0G
 6A20GHR0
 6A20GHR0
 6A20GHR0

 6A05GHR0G
 6A60GHR0
 6A60G
 6A40G
 ROG
 6A10G
 ROG
 6A100G
 6A20G
 6A100G
 6A20G
 6A60G

 ROG
 6A60G
 R0
 6A05G
 R0
 6A20G
 R0
 6A10G
 6A40G
 R0