

Glass Passivated Fast Recovery Rectifiers

FEATURES

- Glass passivated chip junction
- High current capability, Low VF
- High reliability
- High surge current capability
- Low power loss, high efficiency
- 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-204AL (DO-41)

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: 0.33 g (approximately)



DO-204AL (DO-41)





MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERISTIC	CS (T _A =25°ℂ ur	nless otherwise n	oted)	
PARAMETER	SYMBOL	BA157G	BA158G	BA159G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	1000	V
Maximum RMS voltage	V_{RMS}	280	420	700	V
Maximum DC blocking voltage	V _{DC}	400	600	1000	V
Maximum average forward rectified current	I _{F(AV)}	1			Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30			А
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.2		V	
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	5 100		μA	
Maximum reverse recovery time (Note 2)	Trr	150 250		250	ns
Typical junction capacitance (Note 3)	Cj	15		pF	
Typical thermal resistance	$R_{\theta JA}$	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=300µs, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.





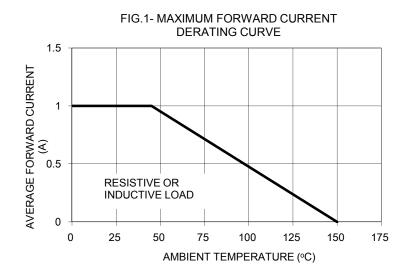
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
BA15xG (Note 1) Prefix "H"		A0		DO-41	3,000 / Ammo box (52mm taping)	
	Drofiv "∐"	R0	Suffix "G"	DO-41	5,000 / 13" Paper reel	
	FIEIIX H	R1	Sullix G	DO-41	5,000 / 13" Paper reel (Reverse)	
		B0		DO-41	1,000 / Bulk packing	

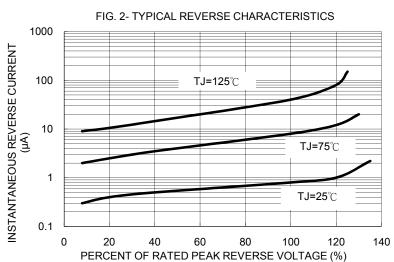
Note 1: "x" defines voltage from 400V (BA157G) to 1000V (BA159G)

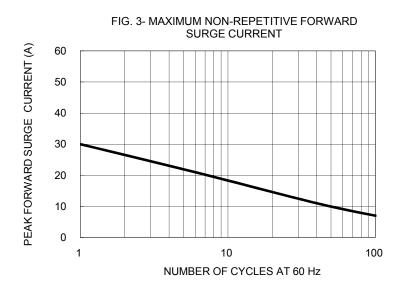
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
		QUALIFIED		CODE	DESCRIT HON	
BA157G A0	BA157G		A0			
BA157G A0G	BA157G		A0	G	Green compound	
BA157GHA0	BA157G	Н	A0		AEC-Q101 qualified	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







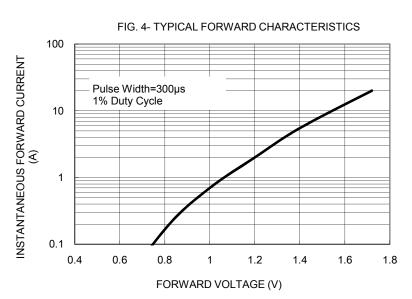




FIG. 5- TYPICAL JUNCTION CAPACITANCE

100

(b)

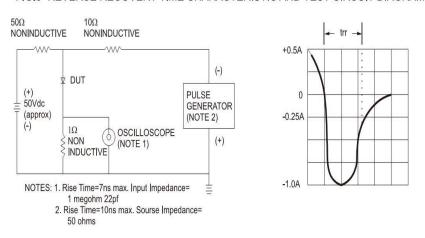
100

100

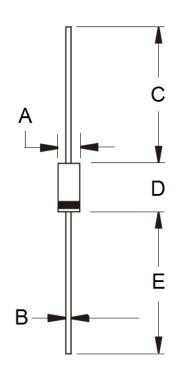
100

REVERSE VOLTAGE (V)

FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	2.00	2.70	0.079	0.106	
В	0.71	0.86	0.028	0.034	
С	25.40	-	1.000	-	
D	4.20	5.20	0.165	0.205	
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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