

Fast Recovery Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- 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: 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) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test **Weight:** 0.3 g (approximately)



DO-204AL (DO-41)

BA159 1000 700 1000	V V V V
700	V V
	V
1000	
	A
30	
1.2	
5 150	
250	ns
10	
65	
- 55 to +150	
- 55 to +150	
1.2 5 150 250 10 65 - 55 to +150	

Note1: Pulse Test with PW=300µs, 1% Duty Cycle

Note2: Reverse Recovery Test Conditions: $I_{\text{F}}\text{=}0.5\text{A},~I_{\text{R}}\text{=}1.0\text{A},~I_{\text{RR}}\text{=}0.25\text{A}$

Note3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.



BA157 thru BA159

Taiwan Semiconductor

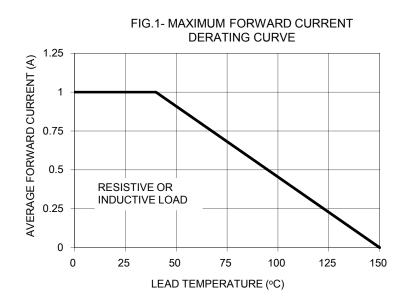
ORDERING INFORMATION								
PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING					
	CODE							
A0	Suffix "G"	DO-41	3,000 / Ammo box (52mm taping)					
R0		DO-41	5,000 / 13" Paper reel					
R1		DO-41	5,000 / 13" Paper reel (Reverse)					
B0		DO-41	1,000 / Bulk packing					
	A0 R0 R1	PACKING CODEGREEN COMPOUND CODEA0	PACKING CODEGREEN COMPOUND CODEPACKAGEA0					

Note 1: "x" defines voltage from 400V (BA157) to 1000V (BA159)

EXAMPLE									
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION					
BA157 A0	BA157	A0							
BA157 A0G	BA157	A0	G	Green compound					

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



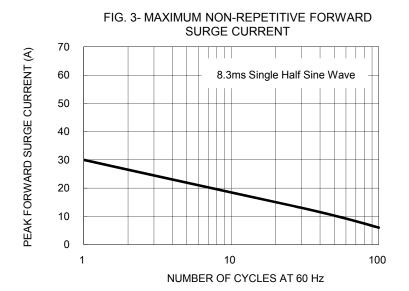
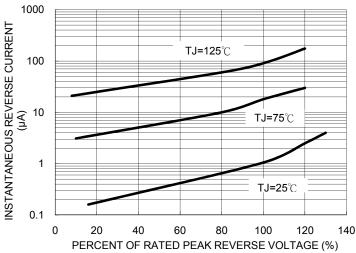
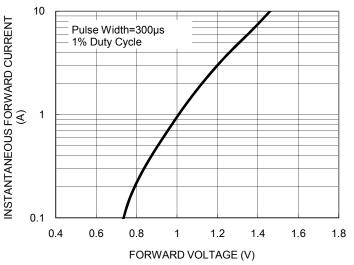


FIG. 2- TYPICAL REVERSE CHARACTERISTICS









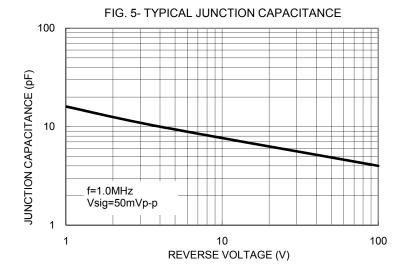


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

Unit (inch)

Max

0.106

0.034

-

0.205

-

Min

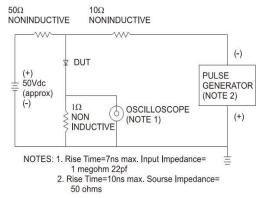
0.079

0.028

1.000

0.165

1.000



Unit (mm)

Max

2.70

0.86

_

5.20

-

Min

2.00

0.71

25.40

4.20

25.40

DIM.

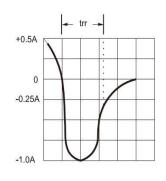
А

В

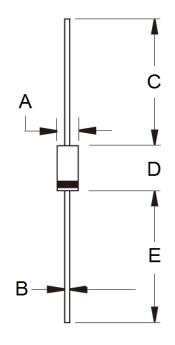
С

D

Е



PACKAGE OUTLINE DIMENSIONS



MARKING DIAGRAM



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



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