



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



DO-204AL (DO-41)





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)

FR 151S	25°C ur FR 1525	less oth	nerwise FR	noted)			
151S	_	FR	FR	ED			
	1525			ГK	FR	FR	LINIT
50	1,52,9	153S	154S	155S	156S	157S	UNIT
50	100	200	400	600	800	1000	V
35	70	140	280	420	560	700	V
50	100	200	400	600	800	1000	V
1.5				Α			
50				А			
1.2					V		
I _R 5 150				μΑ			
150		250 50		00	ns		
30			pF				
60				°C/W			
- 55 to +150				оС			
- 55 to +150				οС			
	\sim	35 70 50 100	35 70 140 50 100 200 150	35 70 140 280 50 100 200 400 1.5 50 1.2 5 150 150 30 60 - 55 to +15	35 70 140 280 420 50 100 200 400 600 1.5 50 1.2 5 150 250 30 60 - 55 to +150	35 70 140 280 420 560 50 100 200 400 600 800 1.5 50 1.2 5 150 250 50 30 60 - 55 to +150	35 70 140 280 420 560 700 50 100 200 400 600 800 1000 1.5 50 1.2 5 150 250 500 30 60 - 55 to +150

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

Note2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A Note3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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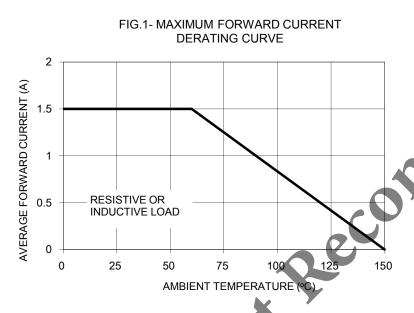
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
	A0	DO-41	3,000 / Ammo box (52mm taping)			
FR15xS	R0	Suffix "G"	DO-41	5,000 / 13" Paper reel		
(Note 1)	R1		DO-41 5,000 / 13"		5,000 / 13" Paper reel (Reverse)	
	B0		DO-41	1,000 / Bulk packing		

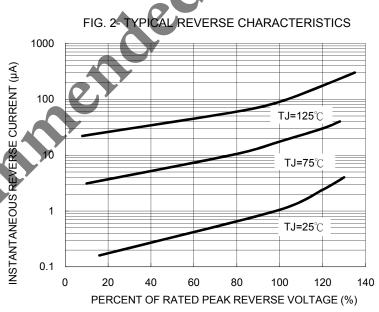
Note 1: "x" defines voltage from 50V (FR151S) to 1000V (FR157S)

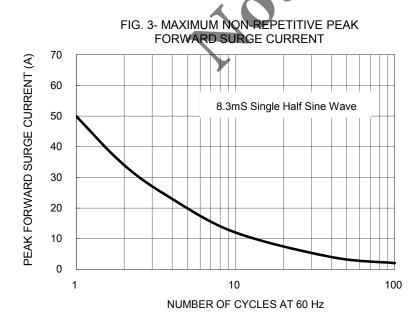
EXAMPLE							
PREFERRED P/N PART NO.		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
FR157S A0	FR157S	A0					
FR157S A0G	FR157S	A0	G	Green compound			

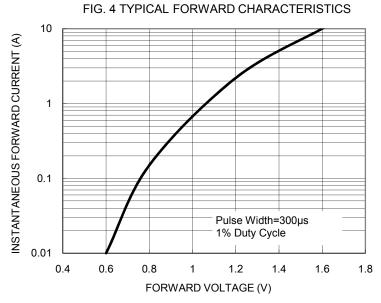
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)









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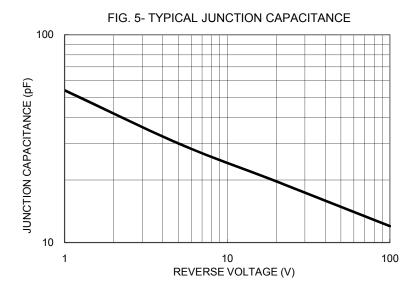
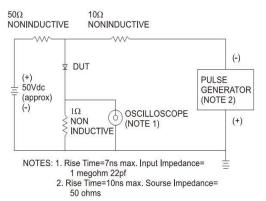
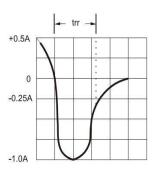
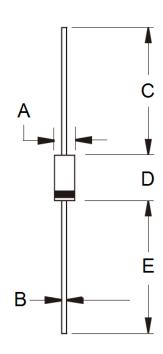


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIWI.	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	- 6	1.000	-	
D	4.20	5.20	0.165	0.205	
Е	25.40		1.000	-	
ec	3,				

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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