



1.5A, 50V - 1000V 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



DO-204AC (DO-15)





MECHANICAL DATA

Case: DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0

Part No. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Weight:** 0.4 g (approximately)

	SYMBOL	FR	FR	FR	FR	FR	FR	FR	UNIT
PARAMETER		151G	152G	153G	154G	155G	156G	157G	
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	1.3					V		
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 100				μΑ			
Maximum reverse recovery time (Note 2)	t _{rr}	150 250 5		00	ns				
Typical junction capacitance (Note 3)	C _J	20				pF			
Typical thermal resistance	$R_{\theta JA}$	60					°C/W		
Operating junction temperature range	T _J	- 55 to +150				°C			
Storage temperature range	T _{STG}	- 55 to +150					°C		

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.	PART NO.	PACKING CODE	PACKING CODE SUFFIX (*)	PACKAGE	PACKING		
	SUFFIX		SUFFIX '				
ED450		A0		DO-15	1,500 / Ammo box		
FR15xG (Note 1)	Н	R0	G	DO-15	3,500 / 13" Paper reel		
(14010-1)		B0		DO-15	1,000 / Bulk packing		

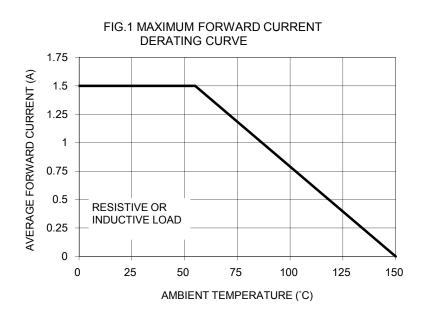
Note 1: "x" defines voltage from 50V (FR151G) to 1000V (FR157G)

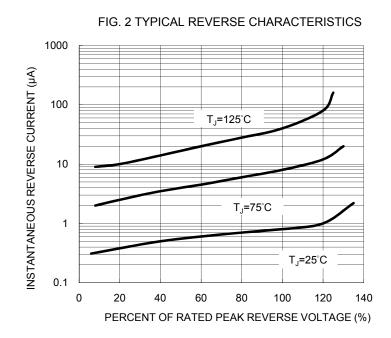
^{*:} Optional available

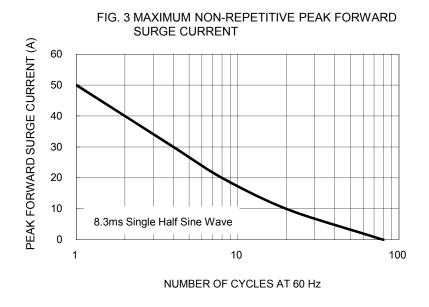
EXAMPLE							
PREFERRED PART NO.	PART NO. SUFFIX		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
FR157GHA0G	FR157G	Н	A0	G	AEC-Q101 qualified Green compound		

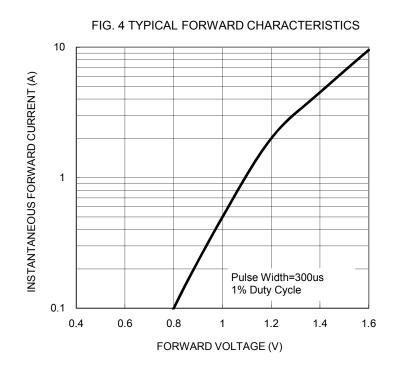
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









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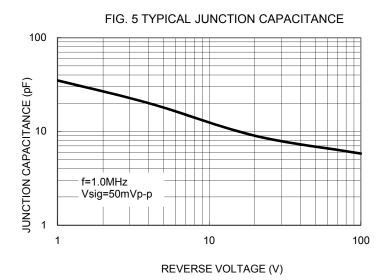
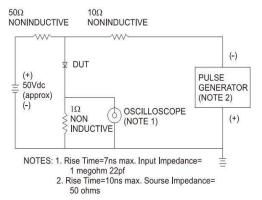
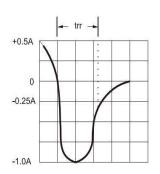
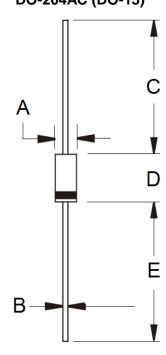


FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS DO-204AC (DO-15)



DIM.	Unit	(mm)	Unit (inch)		
DINI.	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	
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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