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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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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)

DADAMETER	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					μA		
Maximum reverse recovery time (Note 2)	t _{rr}	150 250 500		00	ns				
Typical junction capacitance (Note 3)	CJ	20				pF			
Typical thermal resistance	$R_{\theta JA}$	60				°C/W			
Operating junction temperature range	TJ	- 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	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		
(110101)		В0		DO-15	1,000 / Bulk packing		

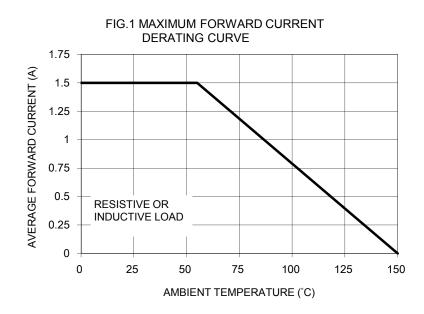
Note 1: "x" defines voltage from 50V (FR151G) to 1000V (FR157G)

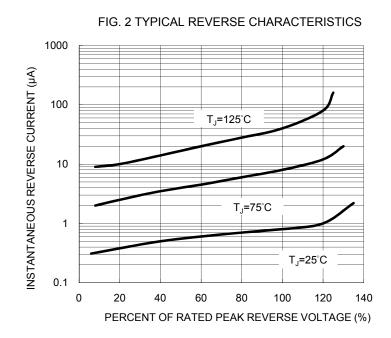
^{*:} Optional available

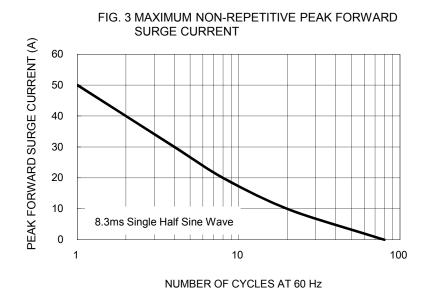
EXAMPLE							
PREFERRED PART NO.	PART NO. SUFFIX PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION			
FR157GHA0G	FR157G	Н	A0	G	AEC-Q101 qualified Green compound		

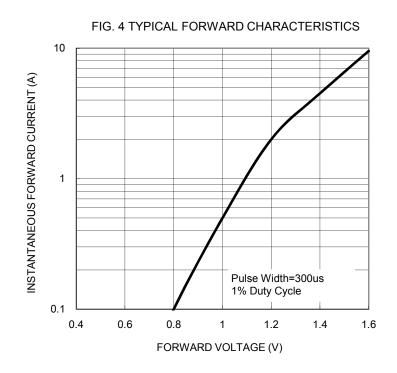
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











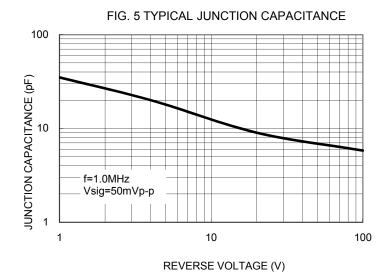
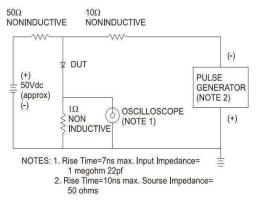
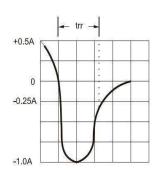
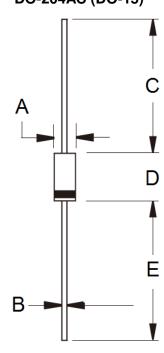


FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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



DIM.	Unit	(mm)	Unit (inch)			
Dilvi.	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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