



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)

MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERIST	ICS (T _A =	=25°C ur	nless oth	erwise r	oted)			
DADAMETED	C) (MDO)	FR	FR	FR	FR	FR	FR	FR	UNIT
PARAMETER	SYMBOL	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°C T_J =125°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	$R_{ heta JA}$	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	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		

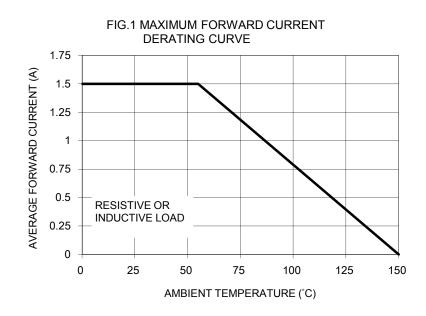
Note 1: "x" defines voltage from 50V (FR151G) to 1000V (FR157G)

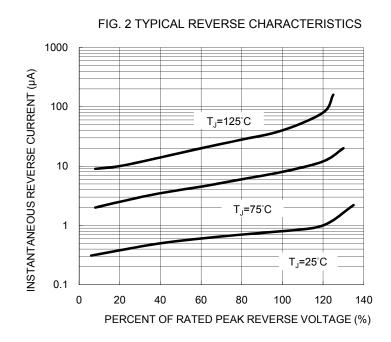
^{*:} Optional available

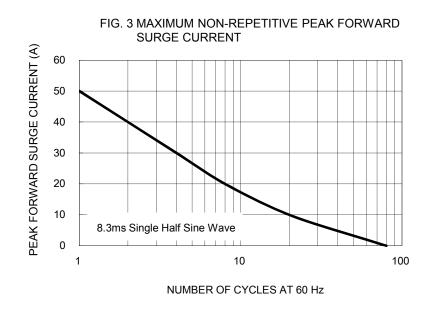
EXAMPLE						
PREFERRED	PART NO.	PART NO.	PACKING CODE	PACKING CODE	DESCRIPTION	
PART NO.	TAKT NO.	SUFFIX		SUFFIX	DESCRIPTION	
FR157GHA0G	FR157G	Н	A0	G	AEC-Q101 qualified Green compound	

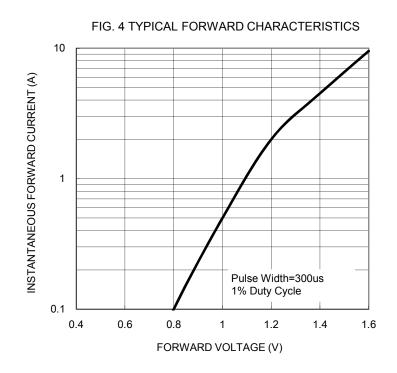
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









Version: H15



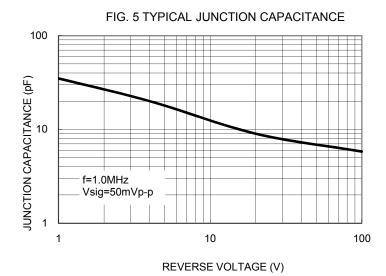
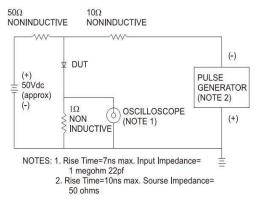
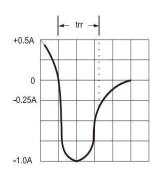


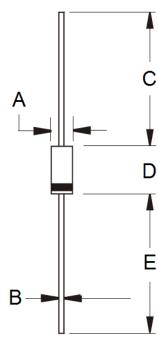
FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

DO-204AC (DO-15)



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	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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