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2A, 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 CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER		SYMBOL	FR	FR	FR	FR	FR	FR	FR	UNIT
			201G	202G	203G	204G	205G	206G	207G	
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)}	2						Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	55					А		
Maximum instantaneous forward voltage (Note 1) @ 2 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	10						pF	
Typical thermal resistance		$R_{\theta JA}$	70					°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				
ED000		A0		DO-15	1,500 / Ammo box		
FR20xG (Note 1)	Н	R0	G	DO-15	3,500 / 13" Paper reel		
		В0		DO-15	1,000 / Bulk packing		

Note 1: "x" defines voltage from 50V (FR201G) to 1000V (FR207G)

EXAMPLE								
PREFERRED PART NO.	PART NO. PACKING COI		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
FR207GHA0G	FR207G	Н	A0	G	AEC-Q101 qualified Green compound			

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

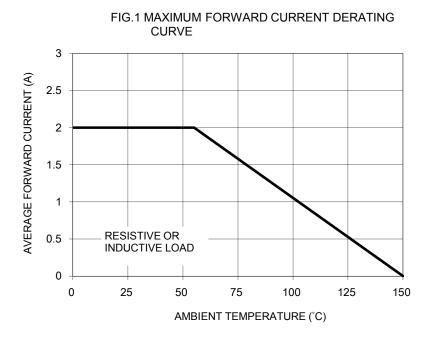
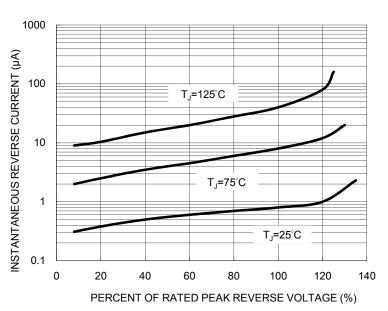
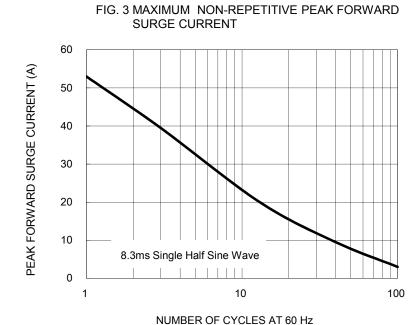


FIG. 2 TYPICAL REVERSE CHARACTERISTICS





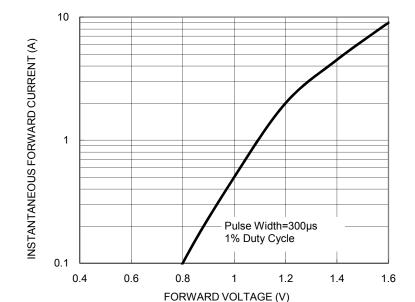


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

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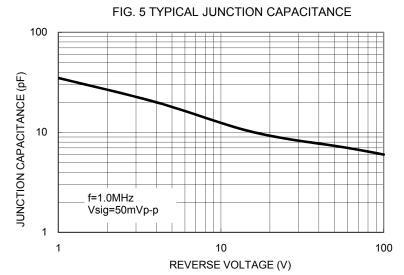
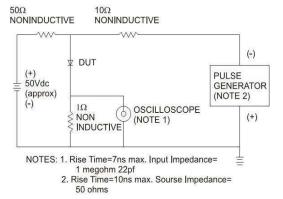
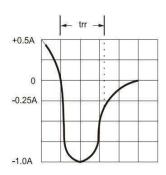
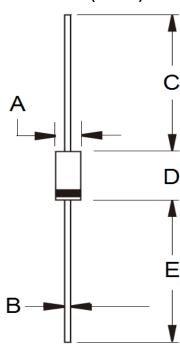


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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



DIM.	Unit	(mm)	Unit (inch)		
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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