

1.5A, 50V - 1000V Glass Passivated High Efficient Rectifiers

FEATURES

- Glass passivated chip junction
- High efficiency, Low VF
- High current capability
- 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



Case: DO-204AC (DO-15)

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free)

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

Meet JESD 201 class 1A whisker test

Weight: 0.4g (approximately)







DO-204AC (DO-15)
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
DADAMETED	SYMBOL	HER	HER	HER	HER	HER	HER	HER	HER	LUNIT
PARAMETER		151G	152G	153G	154G	155G	156G	157G	158G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	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					Α			
Maximum instantaneous forward voltage (Note 1) @ 1.5 A	V _F	1.0 1.3 1.7					V			
Maximum reverse current @ rated VR $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	5 150				μA				
Maximum reverse recovery time (Note 2)	t _{rr}	50 75					ns			
Typical junction capacitance (Note 3)	CJ	35 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=300 µs, 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.



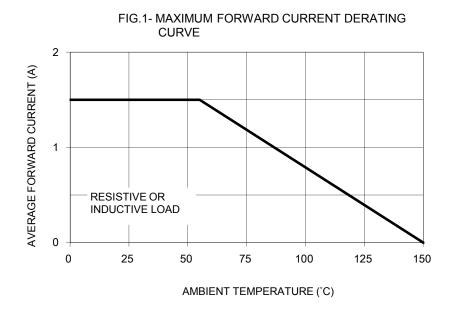
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING		
		SUFFIX				
LIEDAE	A0		DO-15	1500 / Ammo box		
HER15xG (Note 1)	R0	G	DO-15	3,500 / 13" Paper reel		
(14010-1)	В0		DO-15	1000 / Bulk packing		

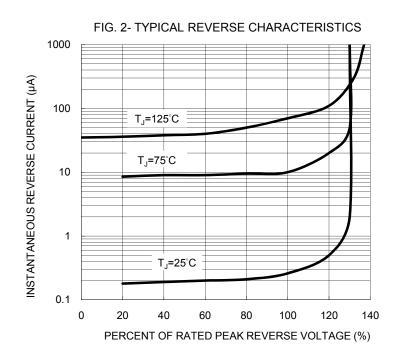
Note 1: "x" defines voltage from 50V (HER151G) to 1000V (HER158G)

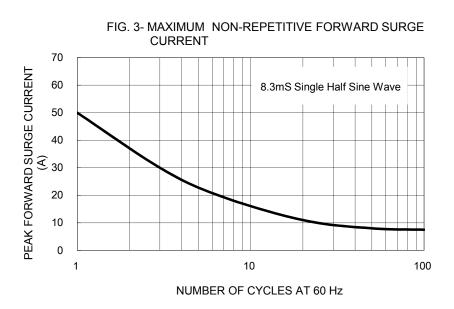
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
HER158G A0G	HER158G	A0	G	Green compound			

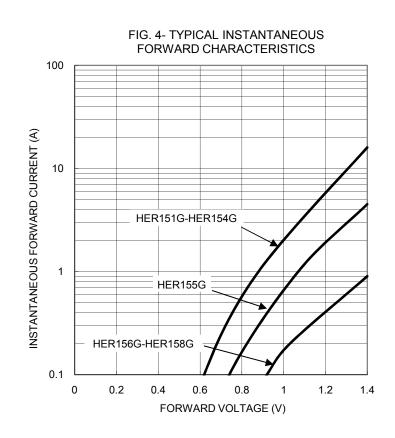
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)









Document Number: DS_D0000069 Version: G15



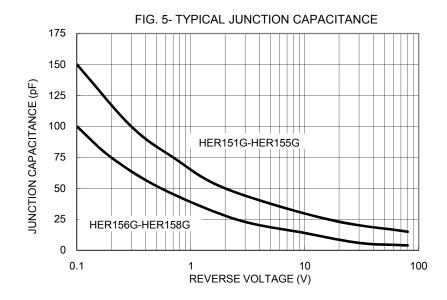
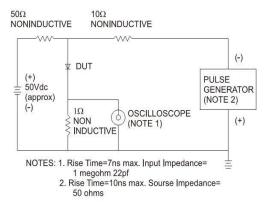
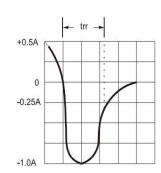


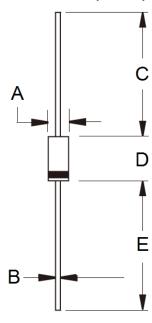
FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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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