



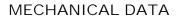
6A, 50V - 600V Glass Passivated High Efficient Rectifiers

FEATURES

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

Case: R-6

- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



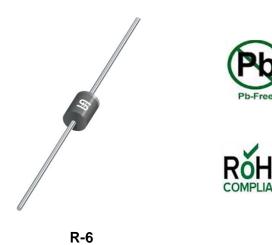
Molding compound, UL flammability classification rating 94V-0

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:** 1.65 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERIST	ICS (T _A	=25°C ι	unless o	therwise	e noted))	
PARAMETER	SYMBOL	HER	HER	HER	HER	HER	HER	UNIT
FARAIVILTER	STIVIBOL	601G	602G	603G	604G	605G	606G	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	V
Maximum average forward rectified current	I _{F(AV)}	6				Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150						Α
Maximum instantaneous forward voltage (Note 1) @ 6 A	V _F	1.0 1.3		1.7	V			
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	10 200				μA		
Maximum reverse recovery time (Note 2)	t _{rr}	50 75		75	ns			
Typical junction capacitance (Note 2)	C _J	80		65	pF			
Typical thermal resistance	$R_{\theta JA}$	37			°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 (*)			
LIEDOO O		A0		R-6	700 / Ammo box	
HER60xG (Note 1)	Н	R0	G	R-6	1,000 / 13" Paper reel	
		B0		R-6	400 / Bulk packing	

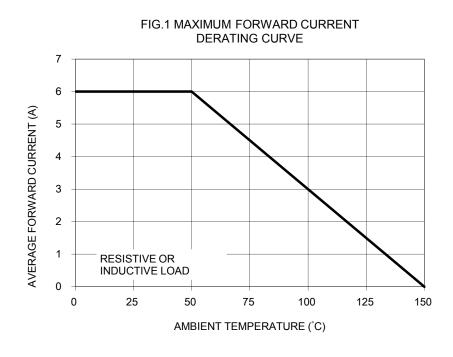
Note 1: "x" defines voltage from 50V (HER601G) to 600V (HER606G)

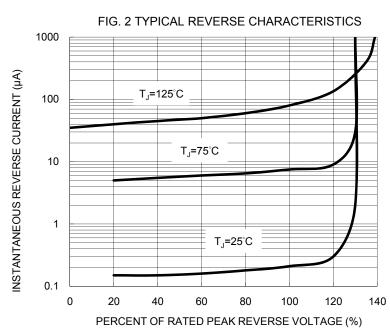
^{*:} Optional available

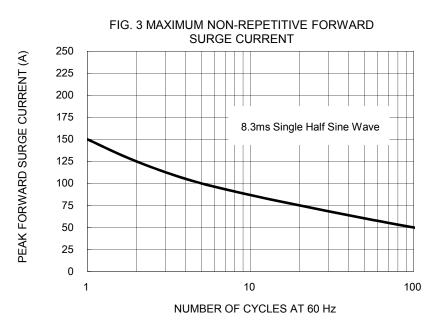
EXAMPLE						
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
HER605GHA0G	HER605G	Н	A0	G	AEC-Q101 qualified Green compound	

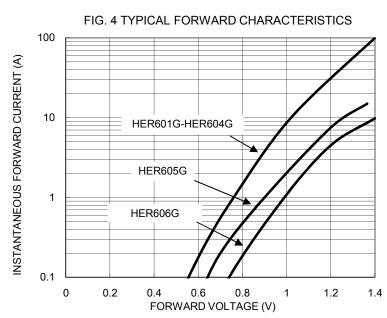
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

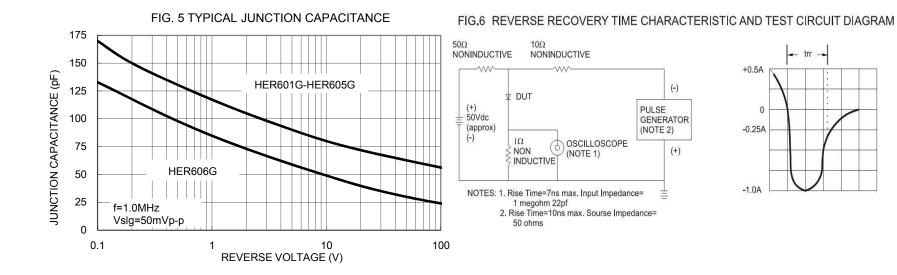




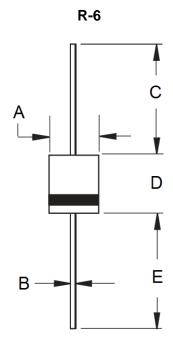








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	6.80	7.20	0.268	0.283		
В	1.20	1.30	0.047	0.051		
С	25.40	-	1.000	-		
D	8.60	9.10	0.339	0.358		
Е	25.40	-	1.000	-		

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code

Factory Code

F=

Document Number: DS_D1408002





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Document Number: DS_D1408002 Version: G15