

FEATURES

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



Case: TO-220AC

Molding compound, UL flammability classification rating 94V-0

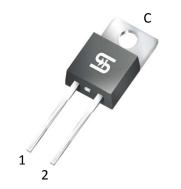
Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 0.56 Nm max. **Weight:** 1.8 g (approximately)







TO-220AC



MAXIMUM RATINGS AND ELECTRICAL CHA	T							LIEDA	LIEDA	
PARAMETER	SYMBOL								HERA	UNIT
		801G	802G	803G	804G	805G	806G	807G	808G	
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)}	8					Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150					А			
Maximum instantaneous forward voltage (Note 1) I _F =8 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	10 400			μΑ					
Maximum reverse recovery time (Note 2)	t _{rr}	50 80			ns					
Typical junction capacitance (Note 3)	CJ	65 55			pF					
Typical thermal resistance	$R_{\theta JC}$	2			°C/W					
Operating junction temperature range	T _J	- 55 to +150			°C					
Storage temperature range	T _{STG}	- 55 to +150			°C					

8A, 50V - 1000V Glass Passivated High Efficient Rectifiers

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 DC.



ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING	
HERA80xG (Note 1)	Н	C0	G	TO-220AC	50 / Tube	

Note 1: "x" defines voltage from 50V (HERA801G) to 1000V (HERA808G)

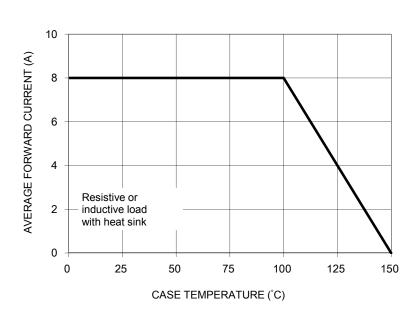
^{*:} Optional available

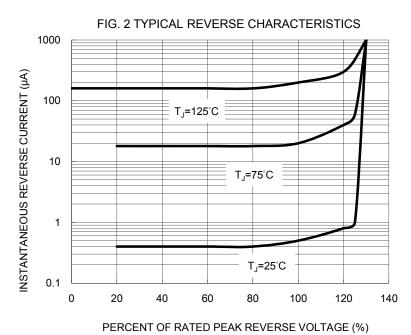
EXAMPLE							
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
HERA801GHC0G	HERA801G	H	CO	G	AEC-Q101 qualified Green compound		

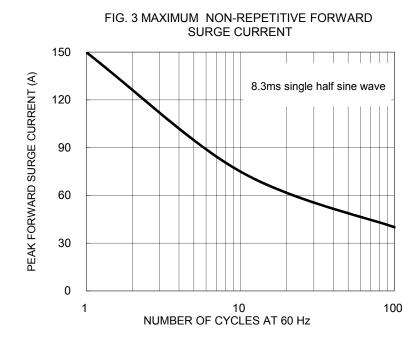
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE







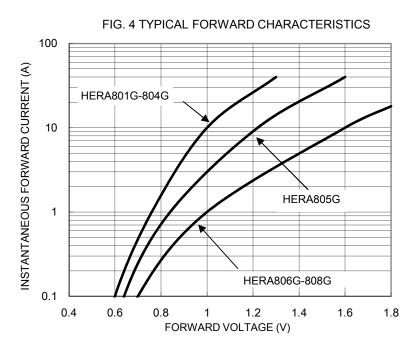




FIG. 5 TYPICAL JUNCTION CAPACITANCE

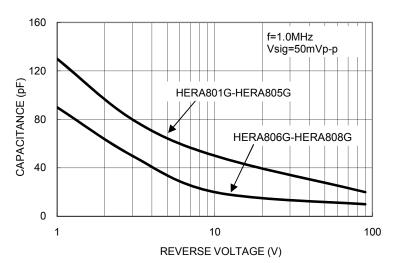
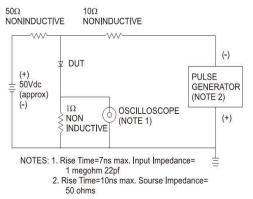
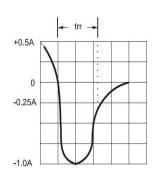


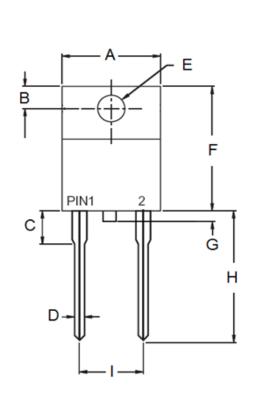
FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

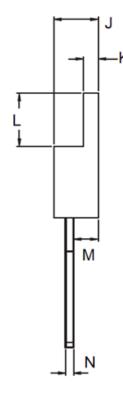




PACKAGE OUTLINE DIMENSIONS

TO-220AC





DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	1	10.50	-	0.413		
В	2.62	3.44	0.103	0.135		
С	2.80	4.20	0.110	0.165		
D	0.68	0.94	0.027	0.037		
E	3.54	4.00	0.139	0.157		
F	14.60	16.00	0.575	0.630		
G	0.00	1.60	0.000	0.063		
Н	13.19	14.79	0.519	0.582		
I	4.95	5.20	0.195	0.205		
J	4.42	4.76	0.174	0.187		
K	1.14	1.40	0.045	0.055		
L	5.84	6.86	0.230	0.270		
М	2.20	2.80	0.087	0.110		
N	0.35	0.64	0.014	0.025		

MARKING DIAGRAM



P/N = Marking Code
G = Green Compound
YWW = Date Code
F = Factory Code





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