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10A, 50V - 1000V Isolated Glass Passivated High Efficient Rectifiers

FEATURES

- 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



ITO-220AB





MECHANICAL DATA

Case: ITO-220AB

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:** 1.82 g (approximately)

PIN 1 O		PIN 2
PIN 3 O	N	CASE

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	HERF 1001	HERF 1002	HERF 1003	HERF 1004	HERF 1005	HERF 1006	HERF 1007	HERF 1008	UNIT
		G	G	G	G	G	G	G	G	
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)}	10				Α				
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	125					Α			
Maximum instantaneous forward voltage (Note 1) @ 5 A	V _F	1.0 1.3 1.7			V					
	I _R	10 400				μΑ				
Maximum reverse recovery time (Note 2)	t _{rr}	50 80			ns					
Typical junction capacitance (Note 3)	CJ	60 40			pF					
Typical thermal resistance	$R_{ heta JC}$	3.0			°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: 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 4.0 V DC.



ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
HERF100xG (Note 1)	Н	C0	G	ITO-220AB	50 / Tube		

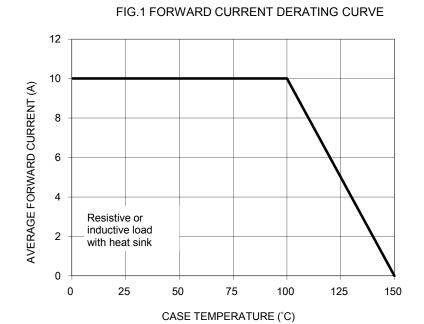
Note 1: "x" defines voltage from 50V (HERF1001G) to 1000V (HERF1008G)

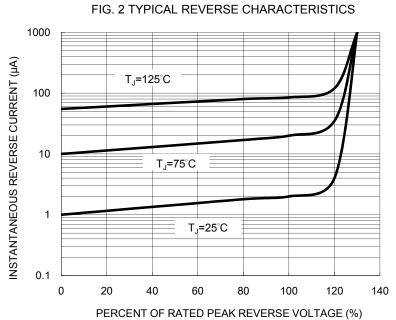
^{*:} Optional available

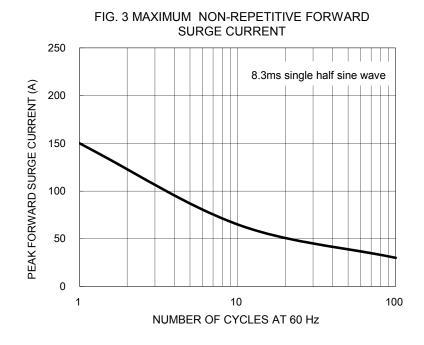
EXAMPLE								
EXAMPLE P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
HERF1008GHC0G	HERF1008G	Н	C0	G	AEC-Q101 qualified Green compound			

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







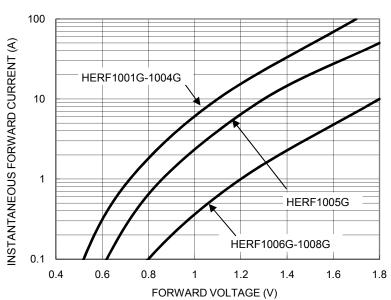


FIG. 4 TYPICAL FORWARD CHARACTERISTICS





FIG. 5 TYPICAL JUNCTION CAPACITANCE

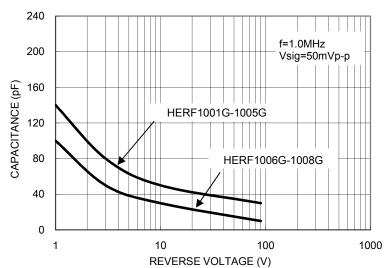
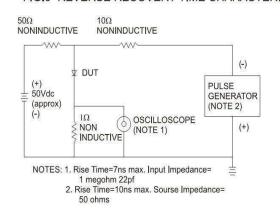
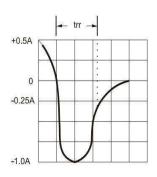
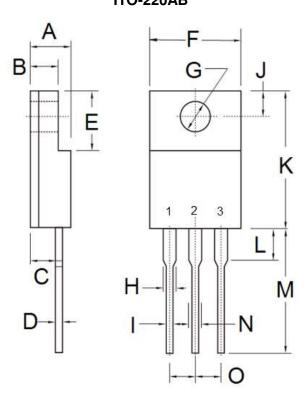


FIG.6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS ITO-220AB



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	4.30	4.70	0.169	0.185	
В	2.50	3.16	0.098	0.124	
С	2.30	2.96	0.091	0.117	
D	0.46	0.76	0.018	0.030	
Е	6.30	6.90	0.248	0.272	
F	9.60	10.30	0.378	0.406	
G	3.00	3.40	0.118	0.134	
Н	0.95	1.45	0.037	0.057	
I	0.50	0.90	0.020	0.035	
J	2.40	3.20	0.094	0.126	
K	14.80	15.50	0.583	0.610	
L	-	4.10	1	0.161	
М	12.60	13.80	0.496	0.543	
N	-	1.80	-	0.071	
0	2.41	2.67	0.095	0.105	

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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