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1A, 50V - 1000V Glass Passivated High Efficient Rectifiers

FEATURES

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



DO-204AL (DO-41)





MECHANICAL DATA

Case: DO-204AL (DO-41)

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:** 0.33 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
PARAMETER	SYMBOL	HER				HER				UNIT
		101G	102G	103G	104G	105G	106G	107G	108G	
Maximum repetitive peak reverse voltage		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					Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					А			
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.0 1.3		1.7		V				
Maximum reverse current @ rated VR T _J =25 °C T _J =125 °C	I _R	5 150				μΑ				
Maximum reverse recovery time (Note 2)	trr	50			75		ns			
Typical junction capacitance (Note 3)	Cj	15 10				pF				
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	15 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=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				
		A0		DO-41	3,000 / Ammo box (52mm taping)		
HER10xG (Note 1)	Н	R0	G	DO-41	5,000 / 13" Paper reel		
	П	R1	G	DO-41	5,000 / 13" Paper reel (Reverse)		
		В0		DO-41	1,000 / Bulk packing		

Note 1: "x" defines voltage from 50V (HER101G) to 1000V (HER108G)

EXAMPLE						
PREFERRED PART NO.	PART NO. PACKING		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
HER108GHA0G	HER108G	Н	A0	G	AEC-Q101 qualified Green compound	

INSTANTANEOUS FORWARD CURRENT (A)

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

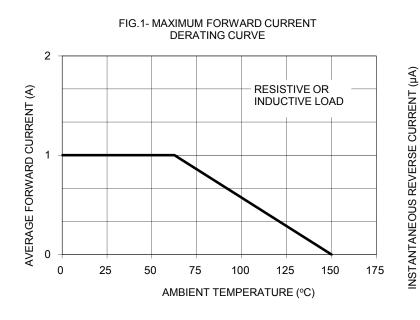


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

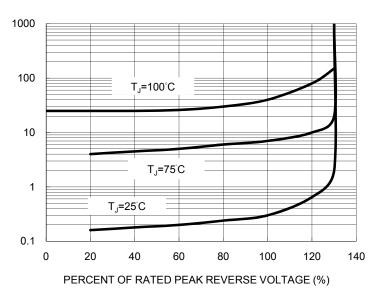


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD

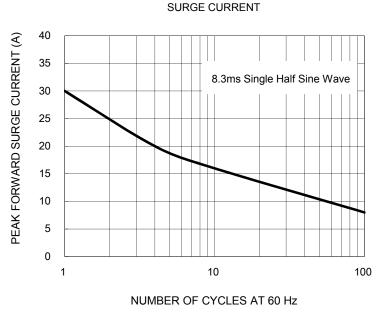
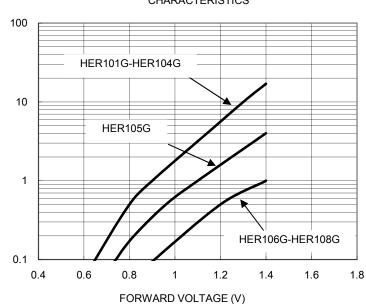


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





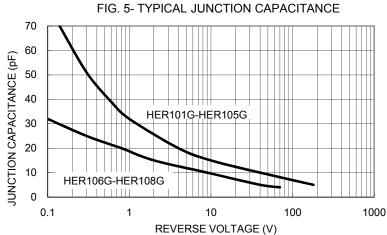
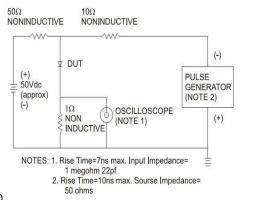
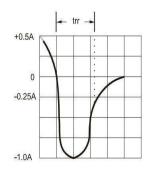


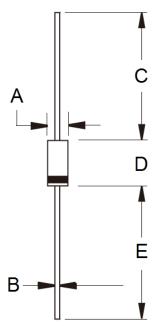
FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS

DO-204AL (DO-41)



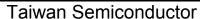
DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	2.00	2.70	0.079	0.106		
В	0.71	0.86	0.028	0.034		
С	25.40	-	1.000	-		
D	4.20	5.20	0.165	0.205		
Е	25.40	_	1.000	_		

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code





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