

4A, 1000V High Efficient Rectifier

FEATURES

- Negligible leakage sustain the high operation temperature
- 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







MECHANICAL DATA

Case: DO-201AD **DO-201AD**

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: 1.1 g (approximately)

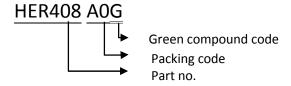
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	HER408	UNIT		
Maximum repetitive peak reverse voltage	V _{RRM}	1000	V		
Maximum RMS voltage	V_{RMS}	700	V		
Maximum DC blocking voltage	V _{DC}	1000	V		
Maximum average forward rectified current	I _{F(AV)}	4	А		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200	А		
Maximum instantaneous forward voltage (Note 1) @ 4 A	V _F	1.7	V		
Maximum reverse current @ rated VR T _J =25 °C	1	10	μА		
T _J =125 °C	I _R	250			
Maximum reverse recovery time (Note 2)	t _{rr}	75	ns		
Typical thermal resistance	$R_{\theta JA}$	30	°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

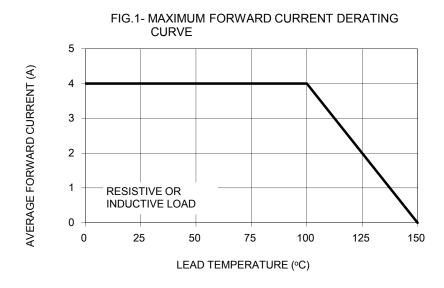


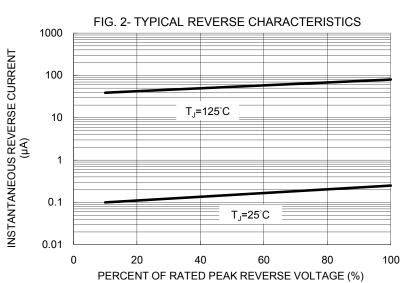
ORDER INFORMATION (EXAMPLE)

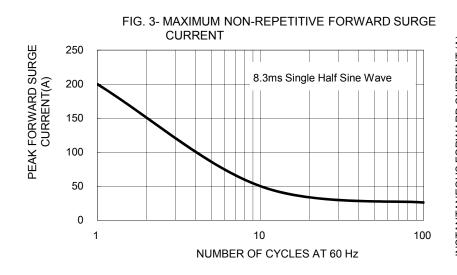


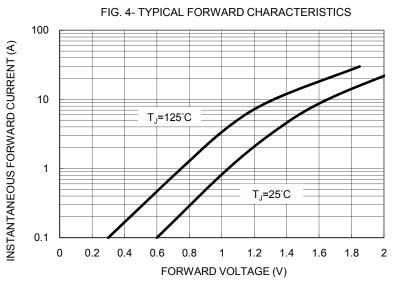
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











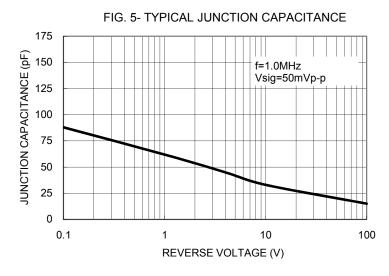
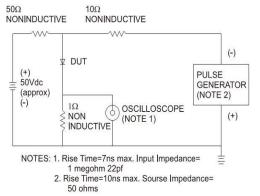
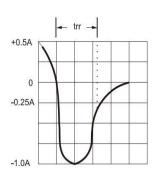
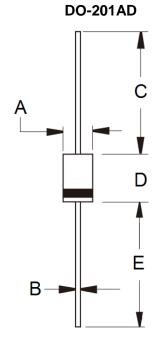


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	5.00	5.60	0.197	0.220
В	1.20	1.30	0.048	0.052
С	25.40	-	1.000	-
D	8.50	9.50	0.335	0.375
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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