

ER101 THRU ER108

Features

- High Surge Current Capability
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- For capcitive load, derate current by 20%

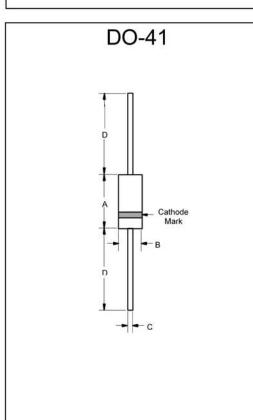
Catalog	Device	Maximum	Maximum	Maximum
Number	Marking	Recurrent	RMS	DC
		Peak Reverse	Voltage	Blocking
9		Voltage	2	Voltage
HER101	HER101	50V	35V	50V
HER102	HER102	100V	70V	100V
HER103	HER103	200V	140V	200V
HER104	HER104	300V	210V	300V
HER105	HER105	400V	280V	400V
HER106	HER106	600V	420V	600V
HER107	HER107	800V	560V	800V
HER108	HER108	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER101-104 HER105 HER106-108	V_F	1.0V 1.3V 1.7V	I _{FM} = 1.0A; T _A = 25°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I _R	5.0μA 100μA	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time HER101-105 HER106-108	T _{rr}	50ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance HER101-105 HER106-108	CJ	20pF 15pF	Measured at 1.0MHz, V _R =4.0V

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

1.0 Amp High Efficient Rectifiers 50 to 1000 Volts



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	205	4.2	5.2			
В	.08	.107	2.0	2.7			
С	.028	.034	.71	.86			
D	1.000		25.40				

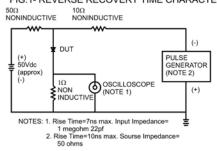
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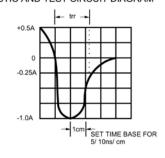


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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





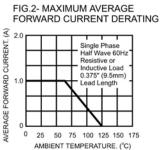
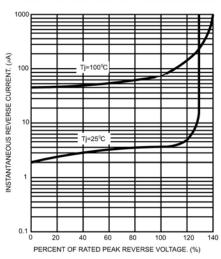
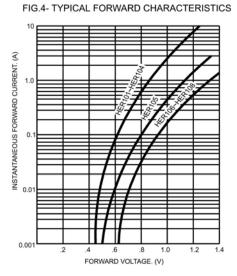
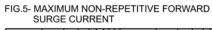
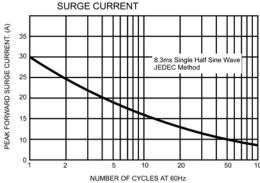


FIG.3- TYPICAL REVERSE CHARACTERISTICS

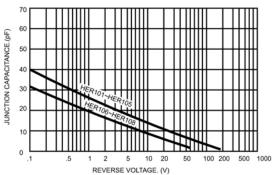














Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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