

**Micro Commercial Components** 



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### **Features**

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) High Surge Current Capability High Reliability Low Forward Voltage Drop

- Halogen free available upon request by adding suffix "-HF" Epoxy meets UL 94 V-0 flammability rating Moisture Sensitivity Level 1

### Maximum Ratings

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

MCC	Device	Maximum	Maximum	Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number	_	Peak Reverse	Voltage	Blocking		
		Voltage	-	Voltage		
HER201GS	HER201G	50V	35V	50V		
HER202GS	HER202G	100V	70V	100V		
HER203GS	HER203G	200V	140V	200V		
HER204GS	HER204G	300V	210V	300V		
HER205GS	HER205G	400V	280V	400V		
HER206GS	HER206G	600V	420V	600V		
HER207GS	HER207G	800V	560V	800V		
HER208GS	HER208G	1000V	700V	1000V		

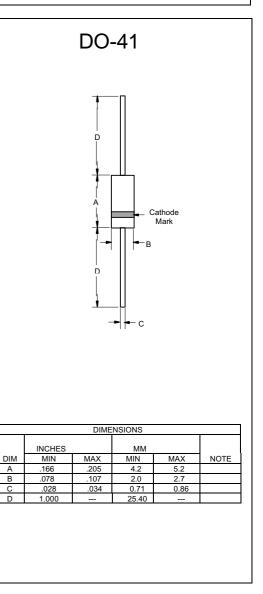
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2 A	T <sub>A</sub> = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	60A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER201GS-204GS HER205GS HER206GS - 208GS	V <sub>F</sub>	1.0V 1.3V 1.7V	I <sub>FM</sub> = 2.0A; T <sub>A</sub> = 25°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I <sub>R</sub>	5μΑ 150μΑ	T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C
Maximum Reverse Recovery Time HER201GS-205GS HER206GS-208GS	T <sub>rr</sub>	50ns 75ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
Typical Junction Capacitance HER201GS-205GS HER206GS-208GS	CJ	50pF 30pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

\*Pulse Test: Pulse Width 300μsec, Duty Cycle 1% Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

## HER201GS THRU HER208GS

### 2.0 Amp Glass **Passivated High Efficient Rectifiers** 50 to 1000 Volts



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#### **Revision:** A

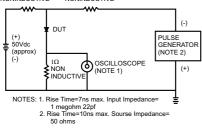
## HER201GS THRU HER208GS

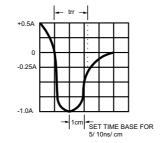


### RATINGS AND CHARACTERISTIC CURVES

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

50Ω 10Ω NONINDUCTIVE NONINDUCTIVE





10

1.0

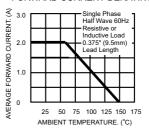
0.

0.0

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INSTANTANEOUS FORWARD CURRENT. (A)

FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING



1.0 1.2

1.4

FIG.3- TYPICAL REVERSE CHARACTERISTICS

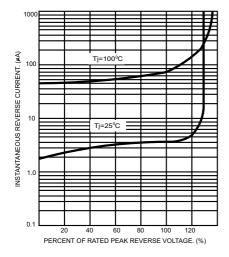


FIG.5- MAXIMUM NON-REPETITIVE FORWARD

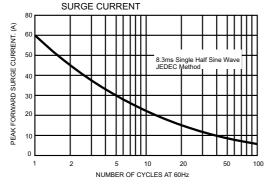
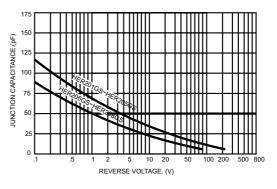


FIG.6- TYPICAL JUNCTION CAPACITANCE

.4 .6 .8 FORWARD VOLTAGE. (V)

FIG.4- TYPICAL FORWARD CHARACTERISTICS



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### **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		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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