

**Micro Commercial Components** 



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### Features

- Low forward voltage drop and High reliability
- High current capability and High surge current capability Epoxy meets UL 94 V-0 flammability rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Temperature: -55℃ to +150℃
- Storage Temperature: -55  $^\circ\!\mathrm{C}$  to +150  $^\circ\!\mathrm{C}$
- Typical Thermal Resistance; 20°C/W Junction To Ambient 5.6°C/W Junction To Lead At 0.375" Lead Length PCB Mounted

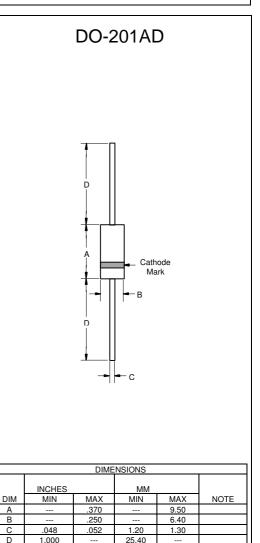
MCC Part	Device	Maximum	Maximum	Maximum		
Number	Marking	Recurrent RMS		DC		
	_	Peak Reverse Voltage		Blocking		
		Voltage	_	Voltage		
HER301G		50V	35V	50V		
HER302G		100V	70V	100V		
HER303G		200V	140V	200V		
HER304G		300V	210V	300V		
HER305G		400V	280V	400V		
HER306G		600V	420V	600V		
HER307G		800V	560V	800V		
HER308G		1000V	700V	1000V		

#### Flectrical Characteristics @ 25°C IInless Atherwise Snecified

Average Forward Current	I <sub>F(AV)</sub>	3.0A	<b>T</b> <sub>A</sub> = 55℃		
Peak Forward Surge Current	I <sub>FSM</sub>	125A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage HER301G-304G HER305G HER306G-308G	VF	1.0V 1.3V 1.7V	I <sub>FM</sub> = 3.0A; T <sub>A</sub> = 25℃		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10uA 200uA	T <sub>A</sub> = 25℃ T <sub>A</sub> = 100℃		
Maximum Reverse Recovery Time HER301G-305G HER306G-308G	Trr	50ns 75ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A I <sub>RR</sub> =0.25A		
Typical Junction Capacitance HER301G-305G HER306G-308G	CJ	80pF 50pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V		
HER306G-308G 50pF   Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.					

## **HER301G** Thru **HER308G**

### 3.0 Amps. Glass **Passivated High Efficient Rectifiers** 50 to 1000 Volts



25 40

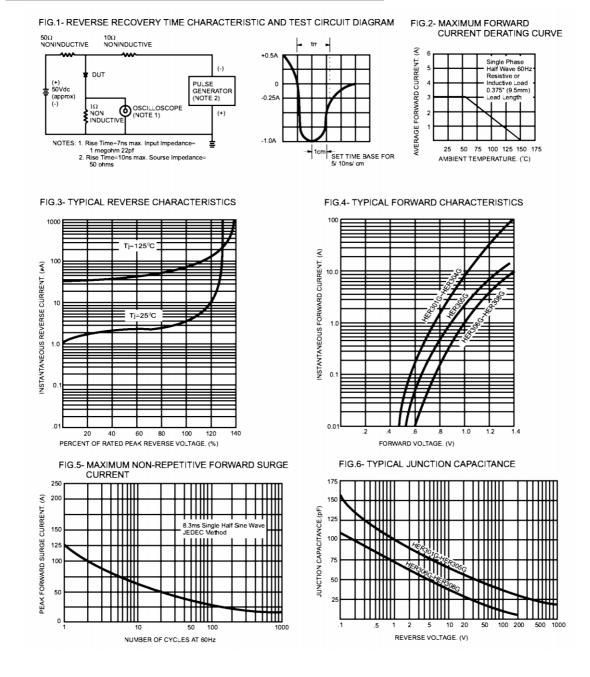
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# HER301G THRU HER308G



#### **RATINGS AND CHARACTERISTIC CURVES**



### www.mccsemi.com



### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel	
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box	
Part Number-BP	Bulk: 12Kpcs/Carton	

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