

**Micro Commercial Components** 



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## Features

- High Surge Current Capability, High Reliability
- Halogen free available upon request by adding suffix "-HF"
- 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 Hatings

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

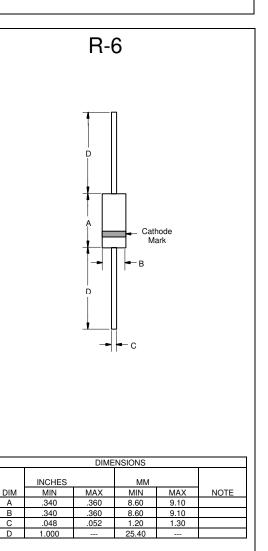
Tor capacitive load, derate current by 20%							
MCC	Device	Maximum	Maximum	Maximum			
Catalog	Marking	Recurrent	RMS	DC			
Number	_	Peak Reverse	Voltage	Blocking			
		Voltage	-	Voltage			
HER601	HER601	50V	35V	50V			
HER602	HER602	100V	70V	100V			
HER603	HER603	200V	140V	200V			
HER604	HER604	300V	210V	300V			
HER605	HER605	400V	280V	400V			
HER606	HER606	600V	420V	600V			
HER607	HER607	800V	560V	800V			
HER608	HER608	1000V	700V	1000V			

### Electrical Characteristics @25°CUhless Cherwise Specified

- 7						
	Average Forward Current	$I_{F(AV)}$	6 A	T <sub>A</sub> = 55°C		
	Peak Forward Surge	I <sub>FSM</sub>	200A	8.3ms, half sine		
	Current					
	Maximum					
	Instantaneous					
	Forward Voltage					
	HER601-604	VF	1.1V	I <sub>FM</sub> = 6.0A;		
	HER605		1.3V	$T_A = 25^{\circ}C$		
	HER606-608		1.7V			
	Reverse Current At	I <sub>R</sub>	10μΑ	$T_A = 25^{\circ}C$		
	Rated DC Blocking		200μΑ	$T_A = 100^{\circ}C$		
	Voltage (Maximum DC)					
	Maximum Reverse					
	Recovery Time					
	HER601-605	T <sub>rr</sub>	50ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A,		
	HER606-608		75ns	I <sub>rr</sub> =0.25A		
	Typical Junction					
	Capacitance					
	HER601-605	CJ	100pF	Measured at		
	HER606-608		65pF	1.0MHz, V <sub>R</sub> =4.0V		
Ν	Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.					

**HER601** THRU **HER608** 

## 6.0 Amp High **Efficient Rectifiers** 50 to 1000 Volts



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# HER601 thru HER608

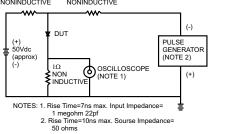


RATINGS AND CHARACTERISTIC CURVES

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

 <sup>50Ω</sup> NONINDUCTIVE

 <sup>10Ω</sup> NONINDUCTIVE



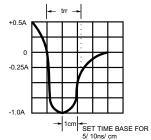


FIG.2- MAXIMUM AVERAGE FORWARD CURRENT DERATING

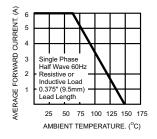
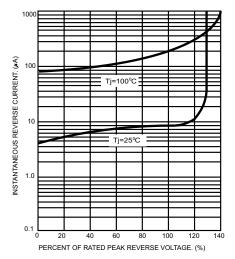


FIG.3- TYPICAL REVERSE CHARACTERISTICS



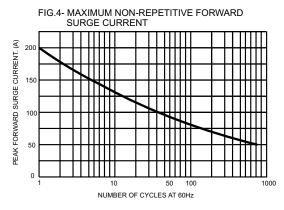


FIG.5- TYPICAL FORWARD CHARACTERISTICS

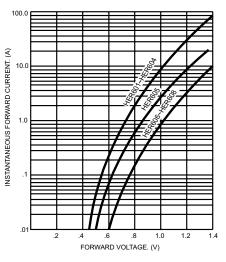
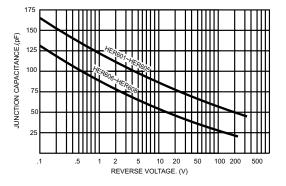


FIG.6- TYPICAL JUNCTION CAPACITANCE



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### **Ordering Information :**

Device	Packing		
Part Number-TP	Tape&Reel: 500pcs/Reel		
Part Number-AP	Ammo Packing: 450pcs/Ammo Box		
Part Number-BP	Bulk: 4.8 Kpcs/Carton		

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

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