

Micro Commercial Components



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Features

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

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Typical Thermal Resistance: 30°C/W Junction To Lead

MCC Part	Device	Maximum	Maximum	Maximum
Number	Marking	Recurrent RMS		DC
	-	Peak Reverse Voltage		Blocking
		Voltage	, C	Voltage
HER501	HER501	50V	35V	50V
HER502	HER502	100V	70V	100V
HER503	HER503	200V	140V	200V
HER504	HER504	300V	210V	300V
HER505	HER505	400V	280V	400V
HER506	HER506	600V	420V	600V
HER507	HER507	800V	560V	800V
HER508	HER508	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

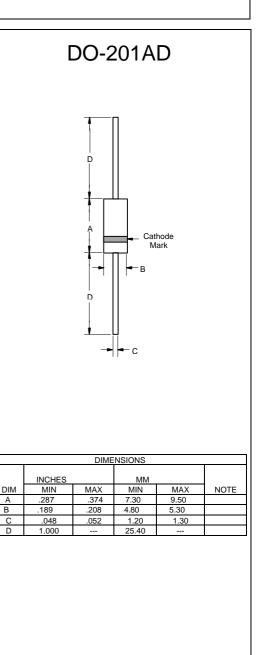
Average Forward Current	I _{F(AV)}	5.0A	T _A = 55℃
Peak Forward Surge Current	I _{FSM}	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage HER501-HER504 HER505 HER506-HER508	V _F	1.0V 1.3V 1.7V	I _{FM} = 5.0A; T _A = 25℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10uA 200uA	T _A = 25℃ T _A = 100℃
Maximum Reverse Recovery Time HER501-HER505 HER506-HER508	Trr	50ns 75ns	I _F =0.5A, I _R =1.0A I _{RR} =0.25A
Typical Junction Capacitance HER501-HER505 HER506-HER508	CJ	100pF 65pF	Measured at 1.0MHz, V _R =4.0V

5.0 Amp High **Efficient Rectifiers** 50 to 1000 Volts

HER501

Thru

HER508



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

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В

HER501 THRU HER508



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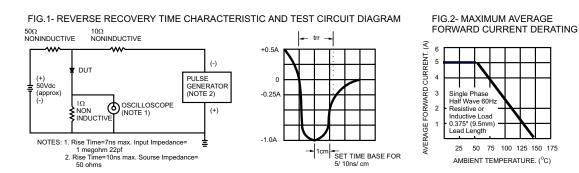
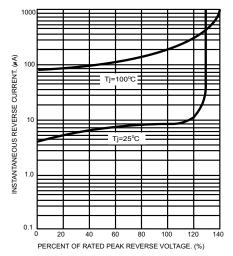


FIG.3- TYPICAL REVERSE CHARACTERISTICS



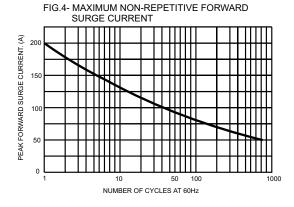


FIG.5- TYPICAL FORWARD CHARACTERISTICS

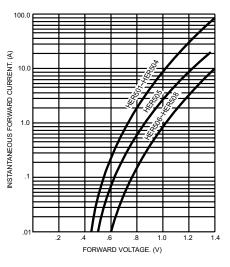
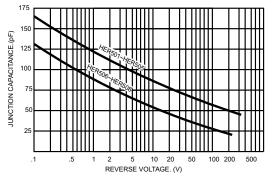


FIG.6- TYPICAL JUNCTION CAPACITANCE



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Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 1.25Kpcs/Reel		
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box		
Part Number-BP	Bulk: 12Kpcs/Carton		

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