

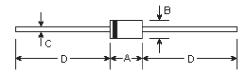
HER3001 THRU HER3007

HIGH EFFICIENCY RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 3.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low cost
- Ultrafast recovery time for high efficiency
- Low forward voltage, high current capability
- Low leakage
- High surge capability
- High temperature soldering guaranteed: 250°C, 0.375" (9.5mm) lead length for 10 seconds, 5 lbs. (2.3Kg) tension

DO-201AD



Mechanical Data

• Case: DO-201AD, molded plastic body over passivated chip

 Terminals: Plated axial leads solderable per MIL-STD-750, method 2026

• Polarity: Color band denotes cathode end

Mounting Position: Any

• Weight: 0.042 ounce, 1.19 grams

	DIMENSIONS												
	DIM	inches		m	Note								
ı		Min.	Max.	Min.	Max.	Note							
	Α	0.283	0.374	7.20	9.50								
	В	0.189	0.208	4.80	5.30	ф							
	С	0.048	0.051	1.20	1.30	ф							
ı	D	1.000	-	25.40	-								

Maximum Ratings and Electrical Characteristics

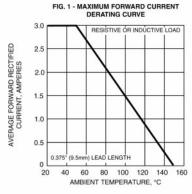
Ratings at 25°C ambient temperature unless otherwise specified.

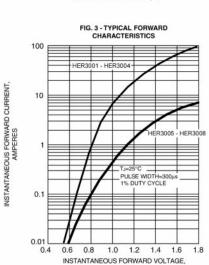
	Symbols	HER 3001	HER 3002	HER 3003	HER 3004	HER 3005	HER 3006	HER 3007	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_A=55^{\circ}C$	I _(AV)	3.0							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method) at T_A =55 $^{\circ}$ C	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 3.0A	V _F	1.0 1.7						Volts	
Maximum DC reverse current at rated DC blocking voltage $T_A^{=25}^{\circ}C$	I _R	10.0 50.0							μА
Maximum reverse recovery time (Note 1) T_J =25 $^{\circ}C$	T _{rr}	50.0 100.0						nS	
Typical junction capacitance (Note 2)	C _J	45.0							ρF
Typical thermal resistance (Note 3)	R _{⊕JA} R _{⊕JL}	20.0 8.5							°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150						$^{\circ}$	

Notes:

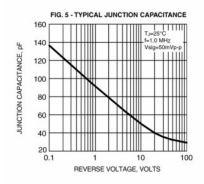
- (1) Reverse recovery test conditions: I_c=0.5A, I_o=1.0A, I_c=0.25A
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts
- (3) Thermal resistance from junction to lead and from junction to ambient with 0.375" (9.5mm) lead length, both leads attached to heatsink

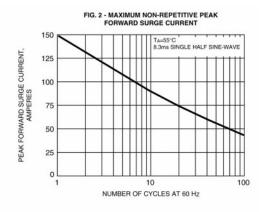
RATINGS AND CHARACTERISTIC CURVES

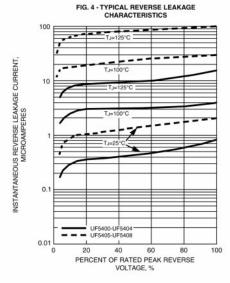




VOLTS







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Datasheets for electronics components.