

HER501 THRU HER508

HIGH EFFICIENT SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ultra fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

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

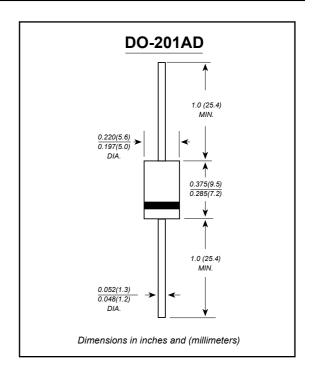
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Characteristic	Symbol	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	5.0								Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150								А
Forward Voltage @I _F = 5.0A	VFM	1.0 1.3				1.7			V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM	10 100								μΑ
Reverse Recovery Time (Note 2)	trr	50 75						nS		
Typical Junction Capacitance (Note 3)	Cj	75 50						pF		
Operating Temperature Range	Tj	-65 to +150								°C
Storage Temperature Range	Тѕтс	-65 to +150								°C

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 - 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
 - 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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RATINGS AND CHARACTERISTIC CURVES

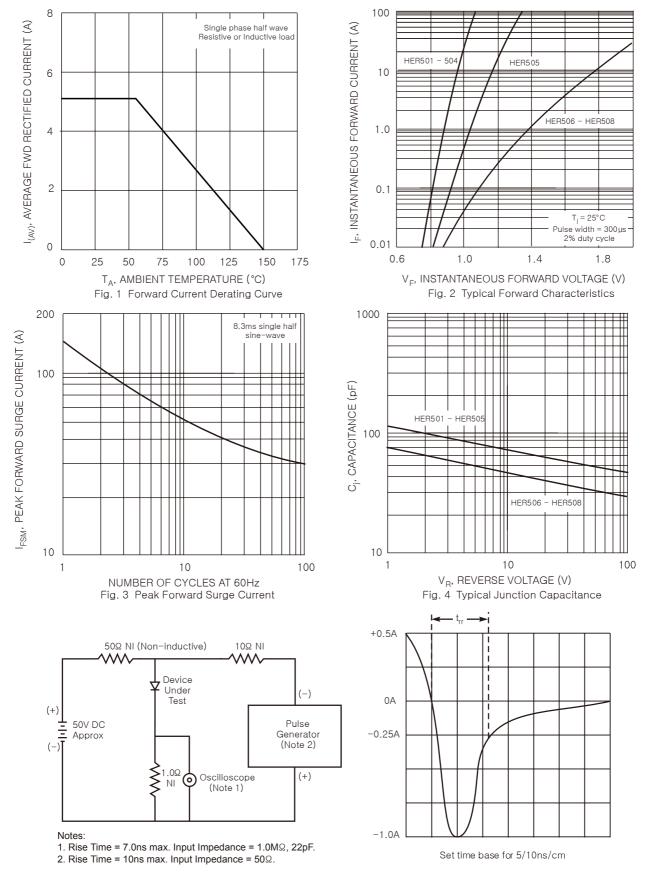


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit