5.0A ULTRAFAST DIODE

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Surge Current Capability
- High Reliability
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: DO-201AD, Molded Plastic

Terminals: Plated Leads Solderable per

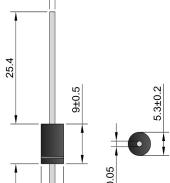
MIL-STD-202, Method 208

Polarity: Cathode Band

• Weight: 1.2 grams (approx.)

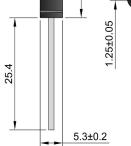
Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version



DO-201AD

1.25±0.05



Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

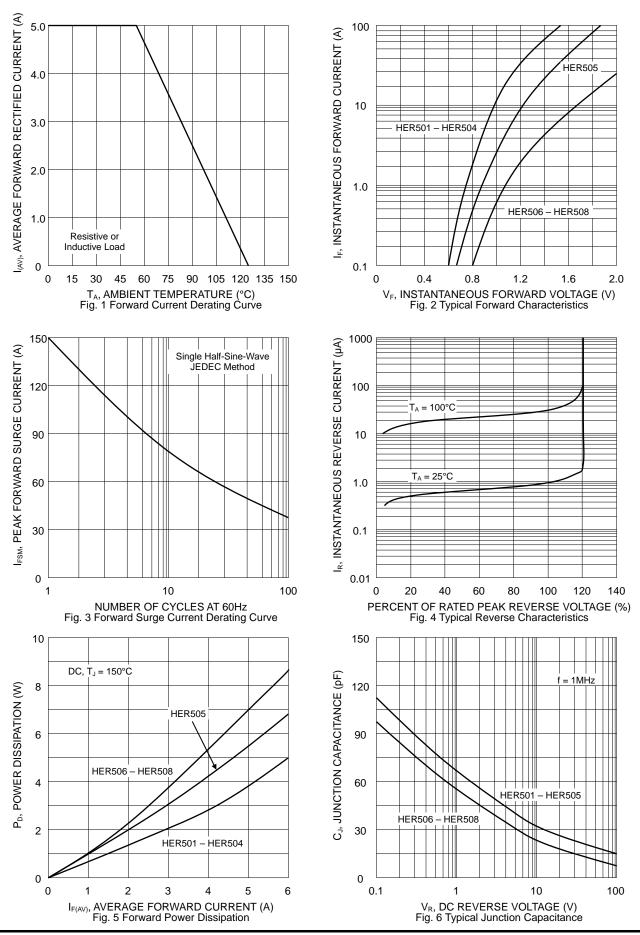
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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	V
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)	lғsм	150							А	
Forward Voltage @I _F = 5.0A	VFM	1.0 1.3			1.7		V			
	lгм	10 100								μΑ
Reverse Recovery Time (Note 2)	t _{rr}	50					75		nS	
Typical Junction Capacitance (Note 3)	CJ	45				36		pF		
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	20 5.0							°C/W	
Operating Temperature Range	TJ	-65 to +125							°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 $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.
- 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

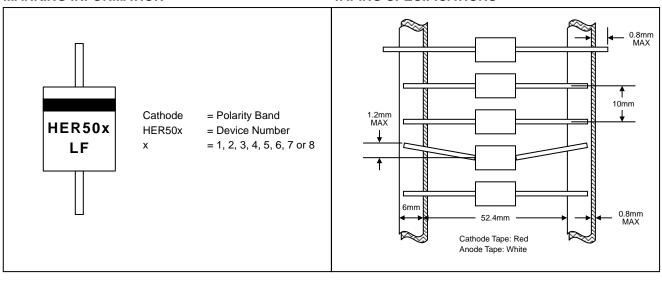






MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION

