

HER101 - HER108

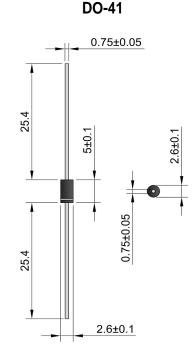
1.0A ULTRAFAST DIODE

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-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



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

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

Characteristic	Symbol	HER 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	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) $@T_A = 55^{\circ}C$	lo	1.0								А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30								A
Forward Voltage $@I_F = 1.0A$	Vfm	1.0 1.3			1.7			V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 100								μA
Reverse Recovery Time (Note 2)	t _{rr}	50					75	75		
Typical Junction Capacitance (Note 3)	Сл	20				15			pF	
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	60 15								°C/W
Operating Temperature Range	TJ	-65 to +125								°C
Storage Temperature Range	Тѕтс	-65 to +150								°C

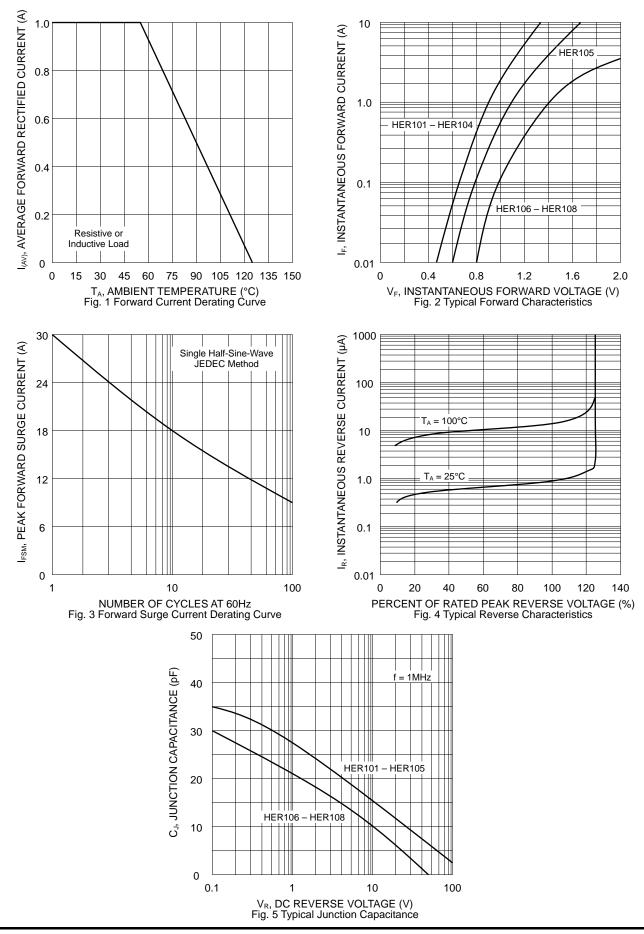
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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.

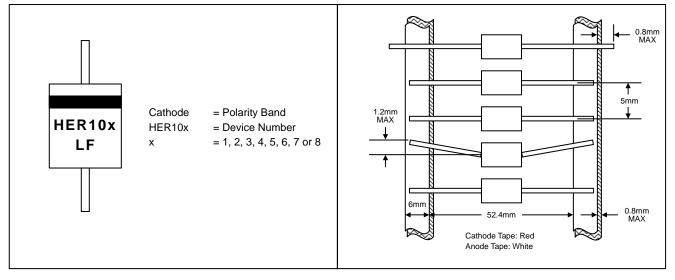
web:www.lf-diode.com







MARKING INFORMATION



TAPING SPECIFICATIONS

PACKAGING INFORMATION

