

Ultra Super Fast Recovery Diodes

HER101~HER108
50 to 1000 V
DO-41

Features

- u Low forward voltage drop.
- u High current capability.
- u High reliability.
- u High surge current capability.
- u High speed switching.

DO-41


Mechanical Date

- u Case: Molded plastic
- u Epoxy: UL 94V-0 rate flame retardant
- u Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- u Polarity: Color band denotes cathode end
- u Mounting position: Any
- u Weight: 0.34 grams

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number		HER101	HER102	HER103	HER104	HER105	HER106	HER107	HER108	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=50℃		1.0								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		30								A
Maximum Instantaneous Forward Voltage at 1.0A		1.0			1.3		1.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25℃	5.0								μA
	Ta=100℃	150								
Maximum Reverse Recovery Time (Note 1)		50					70			ns
Typical Junction Capacitance (Note 2)		20								pF
Operating and Storage Temperature Range T _J , T _{STG}		-65~+150								℃

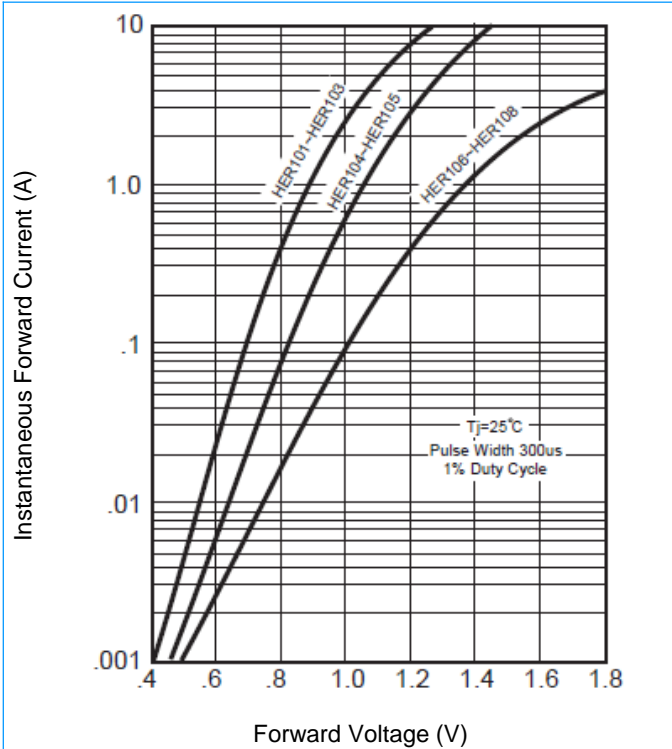
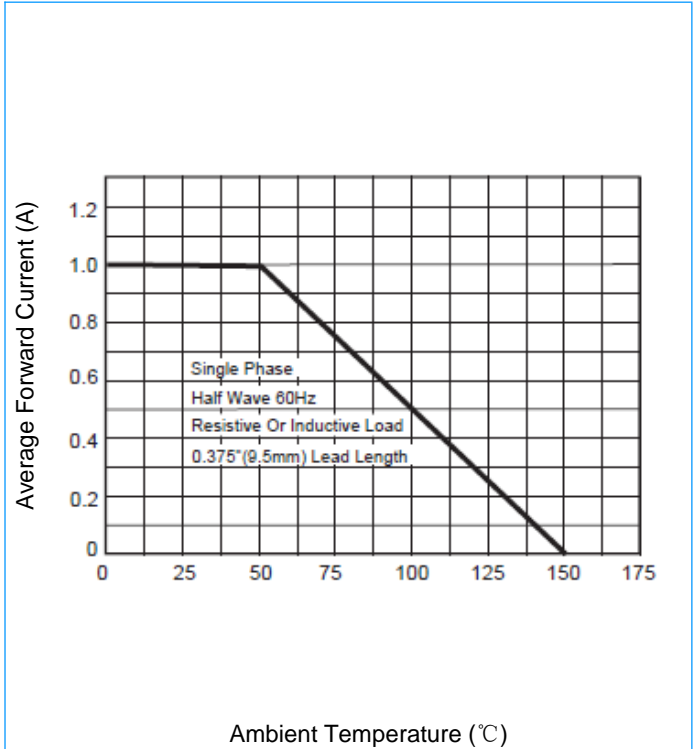
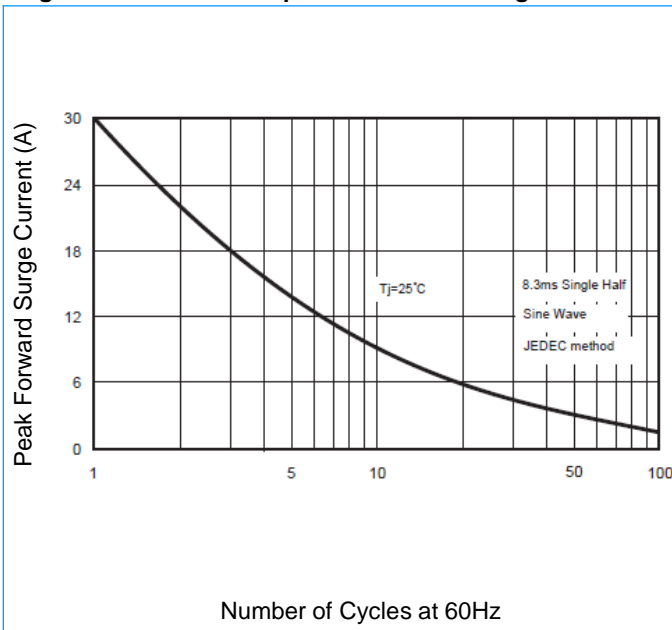
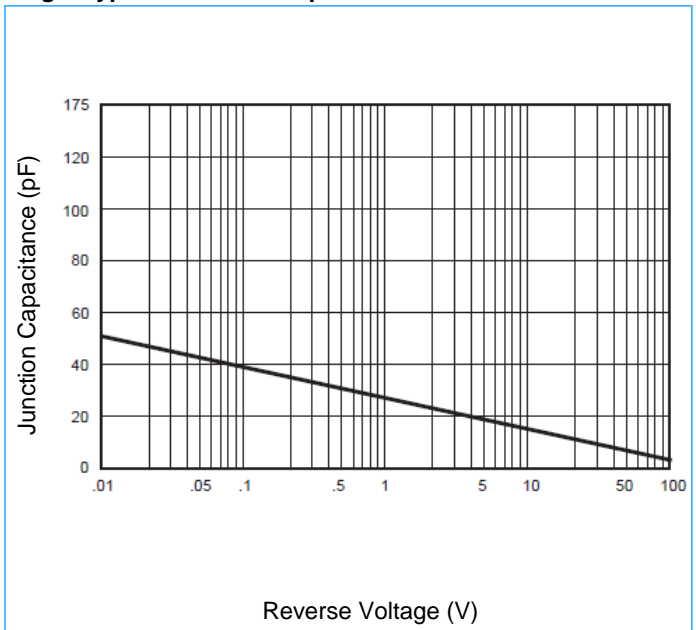
NOTES:

1. Reverse Recovery Time test condition: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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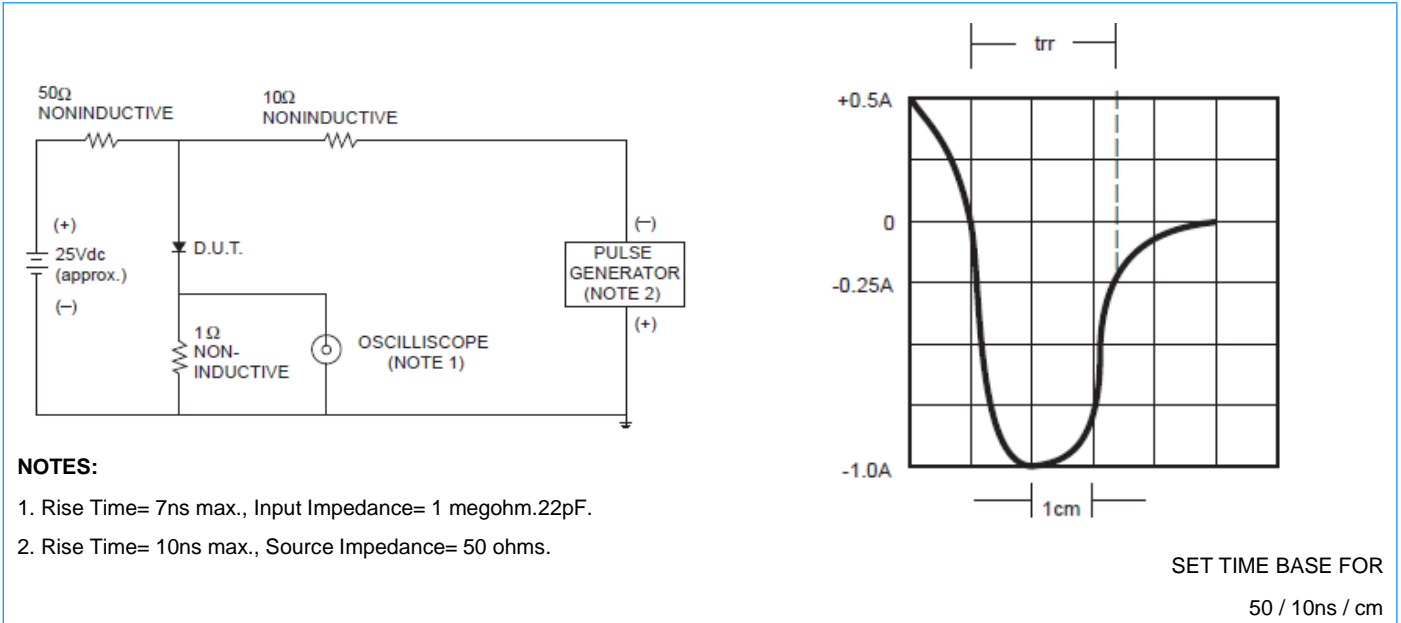
Rating and Characteristic Curves

Fig1. Typical Forward Characteristics

Fig2. Typical Forward Current Derating Curve

Fig3. Maximum Non-Repetitive Forward Surge Current

Fig4. Typical Junction Capacitance


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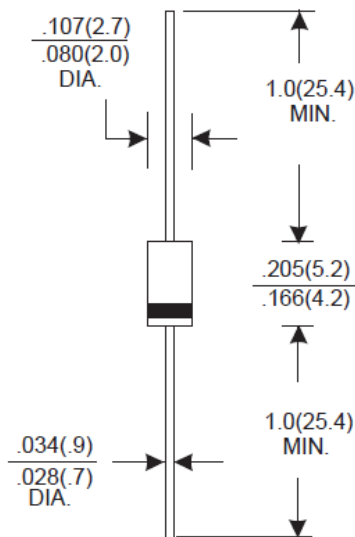
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Rating and Characteristic Curves (Continue)

Fig5. Test Circuit Diagram and Reverse Recovery Time Characteristics


DO-41 Package Outline

DO-41



Packaging Information

Part Number	Component Package	Quantity
HER101~HER108	DO-41	5000 PCS