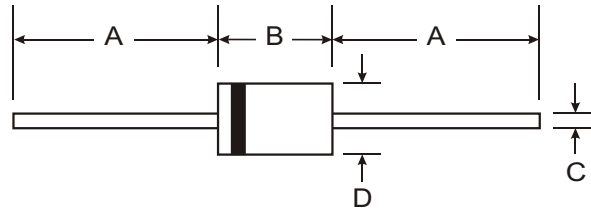


### Features

- Low Power Loss, High Efficiency
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- High Speed Switching
- High Surge Current Rating
- Plastic Material - UL Flammability Classification 94V-0

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### Mechanical Data

Case: Molded Plastic  
 Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208  
 Polarity: Color Band Denotes Cathode  
 Approx. Weight: 1.2 grams

DO-201AD		
Dim	Min	Max
A	25.4	—
B	—	9.5
C	1.2	1.3
D	4.8	5.2
All Dimensions in mm		

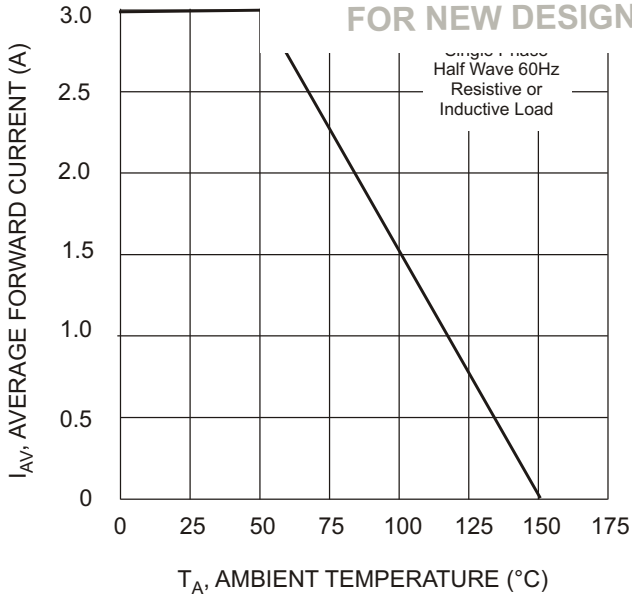
### Maximum Ratings and Electrical Characteristics

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

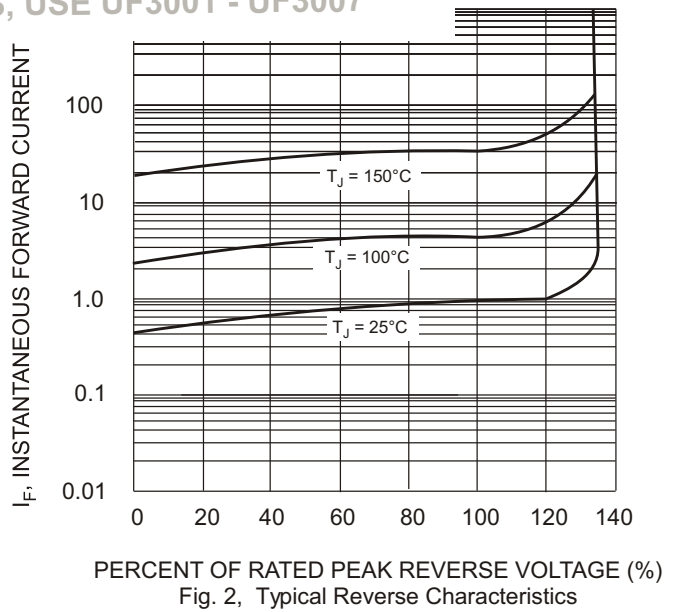
Characteristic	Symbol	HER301	HER302	HER303	HER304	HER305	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	V
Maximum DC Blocking voltage	$V_{DC}$	50	100	200	300	400	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A=50^\circ\text{C}$	$I_{(AV)}$	3.0					A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FM}$	125					A
Maximum Instantaneous Forward Voltage at 3.0 A DC	$V_F$	1.1					V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$	$I_R$	10					$\mu\text{A}$
Maximum Full Load Reverse Current Full Cycle Average 9.5mm Lead Length @ $T_C = 55^\circ\text{C}$	$I_R$	150					$\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	$T_{RR}$	50					nS
Typical Junction Capacitance (Note 2)	$C_J$	70					pF
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150					$^\circ\text{C}$

Notes: 1. Reverse Recovery Test Conditions:  $I_F = 0.5\text{ A}$ ,  $I_R = 1.0\text{ A}$ ,  $I_{RR} = 0.25\text{ A}$   
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

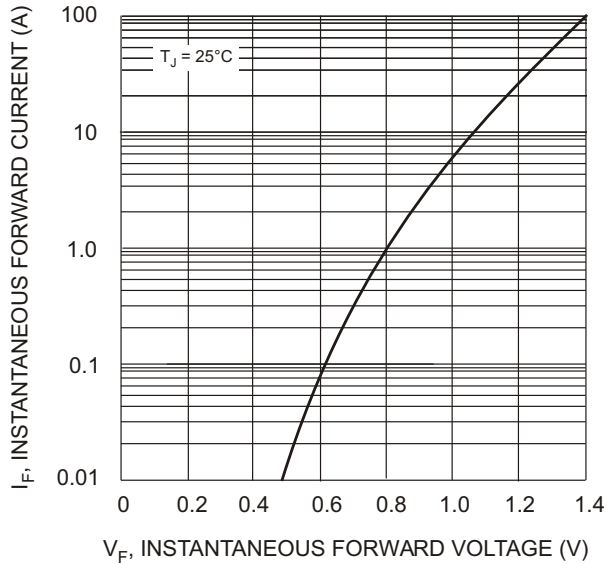
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$T_A$ , AMBIENT TEMPERATURE (°C)  
Fig. 1, Typical Forward Current Derating Curve



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)  
Fig. 2, Typical Reverse Characteristics



$V_F$ , INSTANTANEOUS FORWARD VOLTAGE (V)  
Fig. 3, Typ. Instantaneous Forward Characteristics

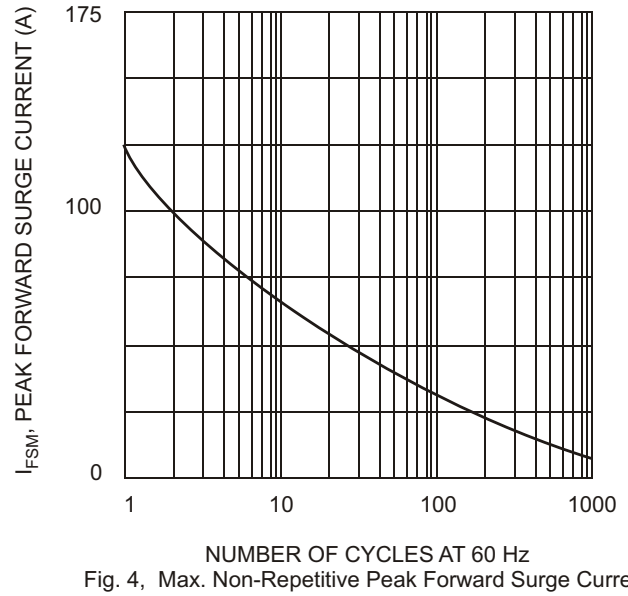
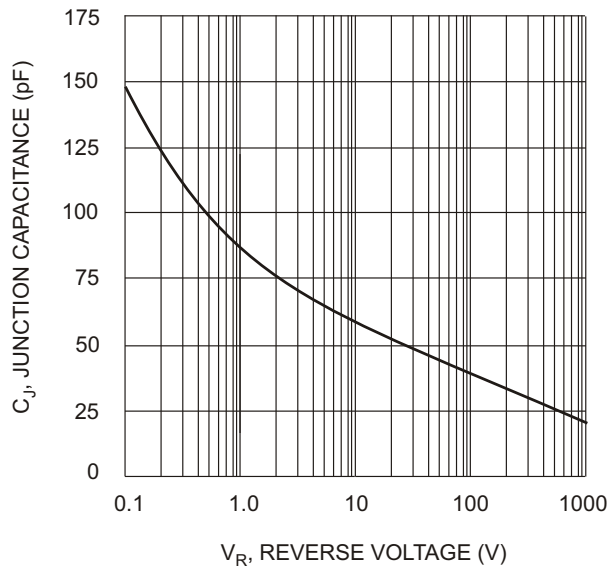


Fig. 4, Max. Non-Repetitive Peak Forward Surge Current



$V_R$ , REVERSE VOLTAGE (V)  
Fig. 5, Typical Junction Capacitance

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