

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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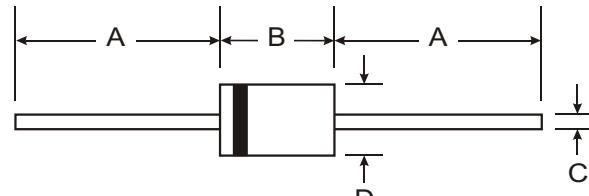
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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

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

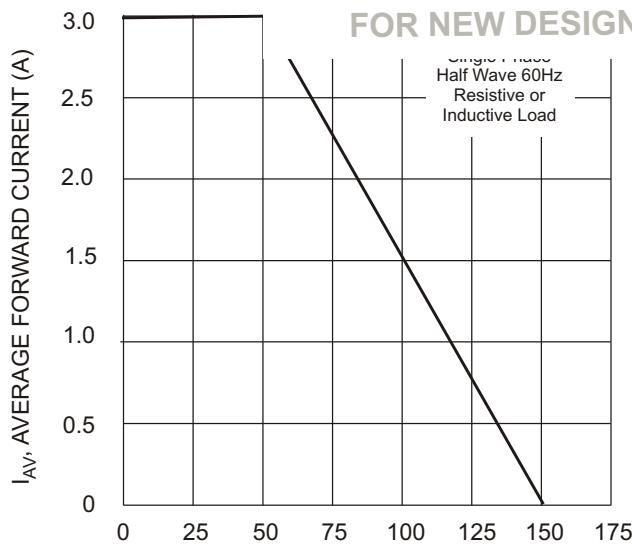
Ratings at 25° C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

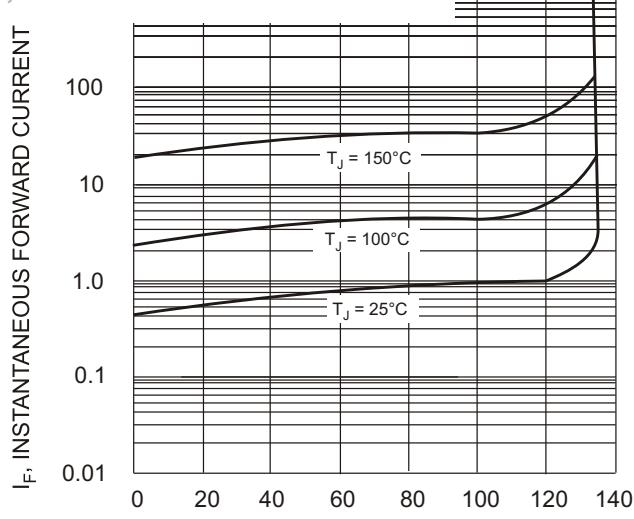
Characteristic	Symbol	HER301	HER302	HER303	HER304	HER305	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	V
Maximum DC Blocking voltage	V_{DC}	50	100	200	300	400	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_A=50^\circ C$	$I_{(AV)}$			3.0			A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (J ² EDEC 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 @ $T_A = 25^\circ C$	I_R			10			μA
Maximum Full Load Reverse Current Full Cycle Average 9.5mm Lead Length @ $T_C = 55^\circ C$	I_R			150			μA
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			$^\circ C$

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

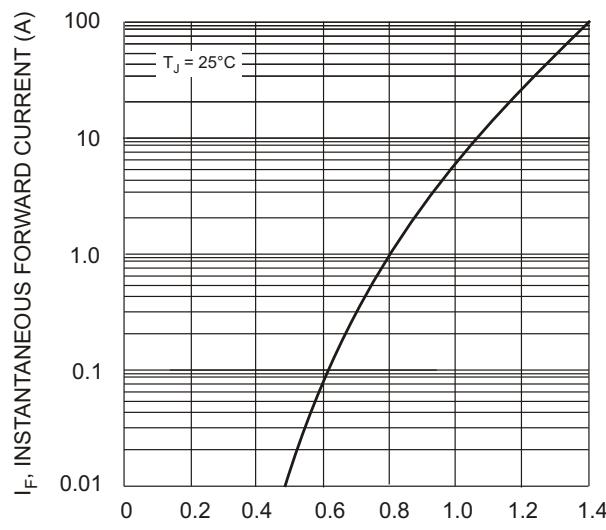
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FOR NEW DESIGNS, USE UF3001 - UF3007**



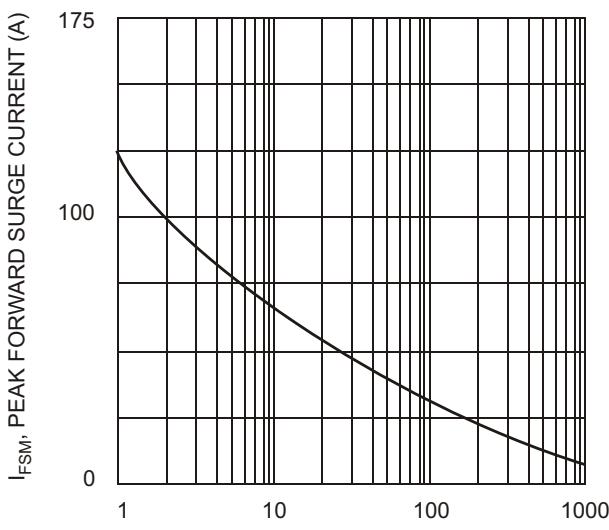
T_A, AMBIENT TEMPERATURE (°C)
Fig. 1, Typical Forward Current Derating Curve



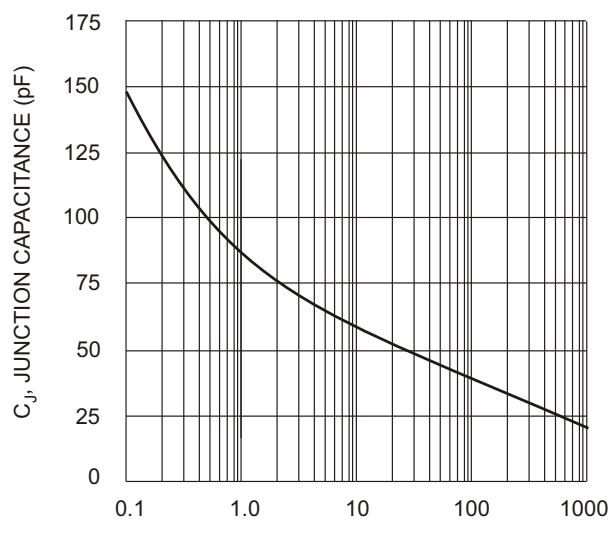
T_J = 150°C
T_J = 100°C
T_J = 25°C
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 2, Typical Reverse Characteristics



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



I_{FSM}, PEAK FORWARD SURGE CURRENT (A)
NUMBER OF CYCLES AT 60 Hz
Fig. 4, Max. Non-Repetitive Peak Forward Surge Current



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

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