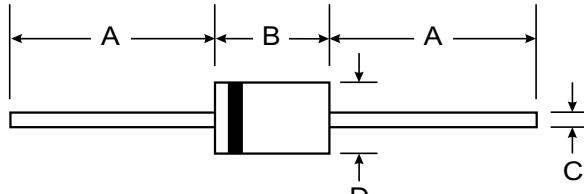


Features

- Low Power Loss, High Efficiency
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- High Speed Switching
- High Surge Current Rating
- High Reliability
- 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°C	I _(AV)			3.0			A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JÉDEC 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°C	I _R			10			µA
Maximum Full Load Reverse Current Full Cycle Average 9.5mm Lead Length @ T _C =55°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			°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.

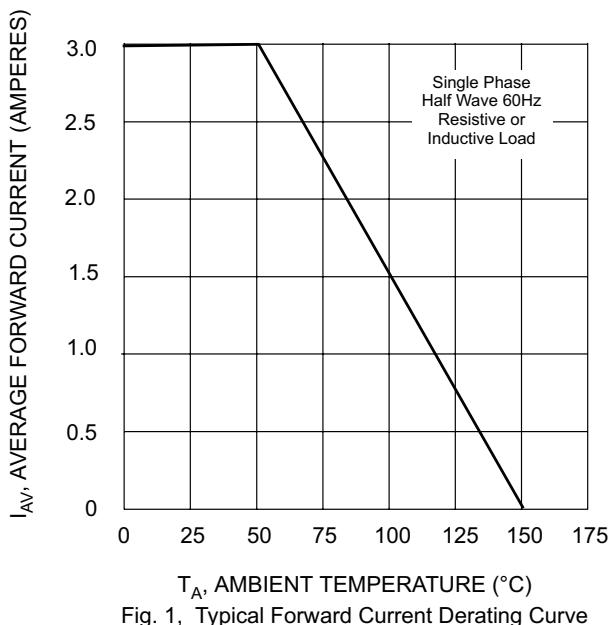


Fig. 1, Typical Forward Current Derating Curve

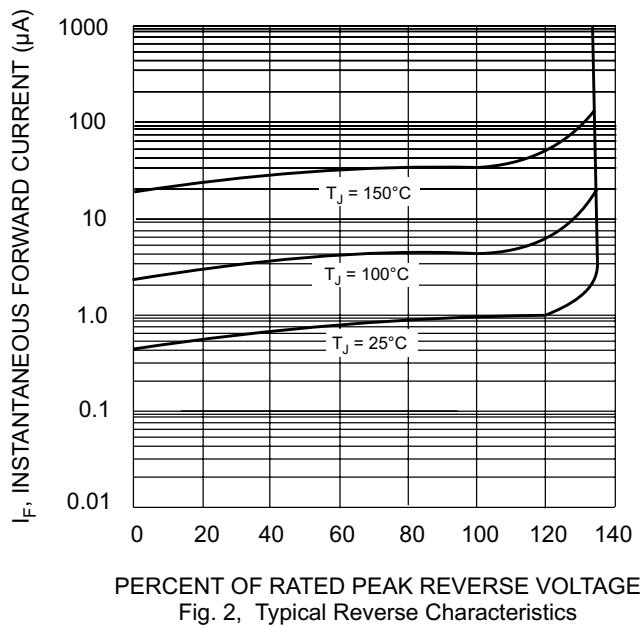


Fig. 2, Typical Reverse Characteristics

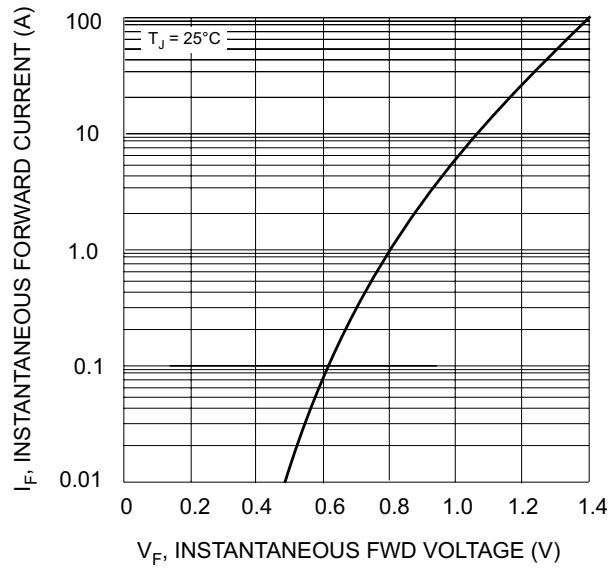


Fig. 3, Typ. Instantaneous Forward Characteristics

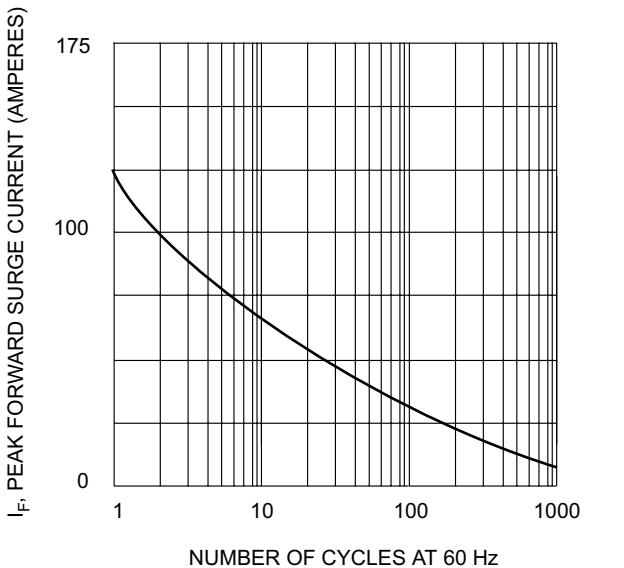


Fig. 4, Max. Non-Repetitive Peak Forward Surge Current

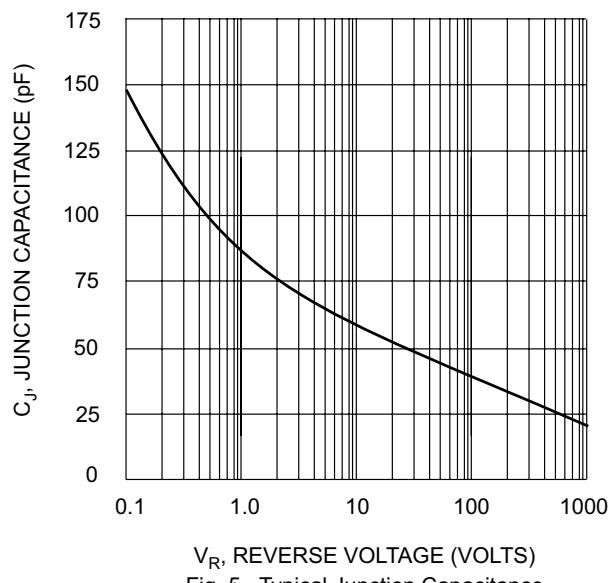


Fig. 5, Typical Junction Capacitance