



# 25A GLASS PASSIVATED HITACHI TYPE PRESS-FIT DIODE

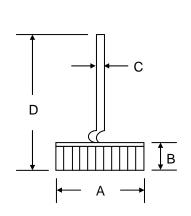


### **Features**

- Glass Passivated Die Construction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Typical IR less than 5.0μA
- C-Band Terminal Construction

### **Mechanical Data**

- Case: 12mm Hitachi Type Press-Fit
- Terminals: Contact Areas Readily Solderable
- Polarity: Cathode to Case (Reverse Units Are Available Upon Request and Are Designated By A "R" Suffix, i.e. HD2502R or HD2504R)
- Polarity: White Color Equals Standard, Black Color Equals Reverse Polarity
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version,
   Add "-LF" Suffix to Part Number, See Page 2





12mm Hitachi					
Dim	Min	Max			
Α	11.80	12.00			
В	3.65	3.85			
С	1.35	1.55			
D (+)*	18.00	22.00			
D (-)*	20.00	24.00			
All Dimensions in mm					

(+)\*: Standard Polarity (-)\*: Reverse Polarity

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

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

Characteristic	Symbol	HD2500	HD2501	HD2502	HD2503	HD2504	HD2505	HD2506	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	350	420	<b>V</b>
Average Rectified Output Current @T <sub>C</sub> = 120°C	lo	25					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				300				А
Forward Voltage @I <sub>F</sub> = 25A	VFM				1.0				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	lгм	5.0 500					μΑ		
Typical Junction Capacitance (Note 1)	Cl				300				pF
Typical Thermal Resistance (Note 2)	R JC	1.2				°C/W			
Operating and Storage Temperature Range	ТJ, Tsтg	-65 to +175				ů			

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance: Junction to case, single side cooled.



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity			
HD2500	12mm Hitachi Press-Fit	500 Units/Box			
HD2501	12mm Hitachi Press-Fit	500 Units/Box			
HD2502	12mm Hitachi Press-Fit	500 Units/Box			
HD2503	12mm Hitachi Press-Fit	500 Units/Box			
HD2504	12mm Hitachi Press-Fit	500 Units/Box			
HD2505	12mm Hitachi Press-Fit	500 Units/Box			
HD2506	12mm Hitachi Press-Fit	500 Units/Box			

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

  To order Lead Free version (with Lead Free finish), add "-LF" suffix to part 2. number above. For example, HD2500-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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