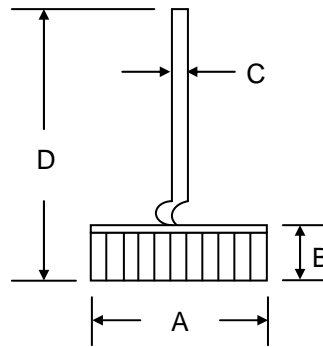


Features

- 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. HD5002R or HD5004R)
- 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**



Anode +



12mm Hitachi		
Dim	Min	Max
A	11.80	12.00
B	3.65	3.85
C	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 @T_A=25°C unless otherwise specified

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


Characteristic	Symbol	HD5000	HD5001	HD5002	HD5003	HD5004	HD5005	HD5006	Unit
Peak Repetitive Reverse Voltage	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	300	400	500	600	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	350	420	V
Average Rectified Output Current @T _C = 120°C	I _O	50							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	500							A
Forward Voltage @I _F = 50A	V _{FM}	1.0							V
Peak Reverse Current @T _A = 25°C	I _{RM}	5.0							μA
At Rated DC Blocking Voltage @T _A = 100°C		500							
Typical Junction Capacitance (Note 1)	C _J	300							pF
Typical Thermal Resistance (Note 2)	R _{JC}	1.2							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175							°C

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
HD5000	12mm Hitachi Press-Fit	500 Units/Box
HD5001	12mm Hitachi Press-Fit	500 Units/Box
HD5002	12mm Hitachi Press-Fit	500 Units/Box
HD5003	12mm Hitachi Press-Fit	500 Units/Box
HD5004	12mm Hitachi Press-Fit	500 Units/Box
HD5005	12mm Hitachi Press-Fit	500 Units/Box
HD5006	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.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, HD5000-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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