

# YBS20005 THRU YBS2010

## Surface Mount Glass passivated Bridge Rectifier

Reverse Voltage - 50 to 1000 V

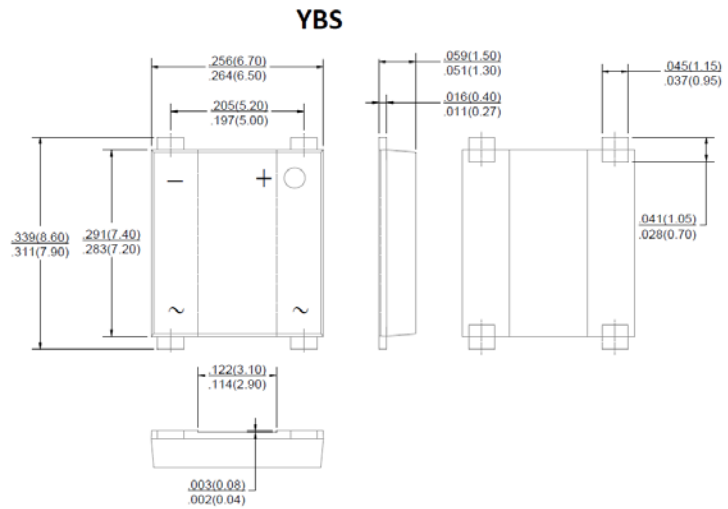
Forward Current - 2 A

### Features

- Glass Passivated Chip Junction
- High Surge Current Capability
- Designed for Surface Mount Application

### Mechanical Data

- Package: YBS



Dimensions in inches and (millimeters)

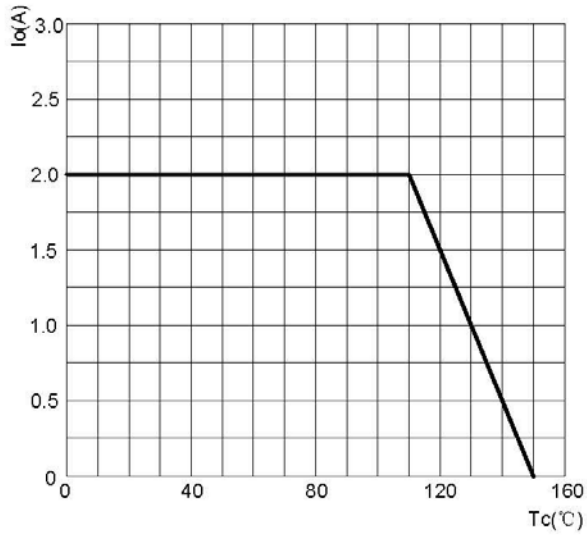
### Maximum Ratings and Electrical characteristics

Single-phase, half-wave, 60 Hz, resistive or inductive load rating at 25°C, unless otherwise specified, for capacitive load, derate current by 20 %.

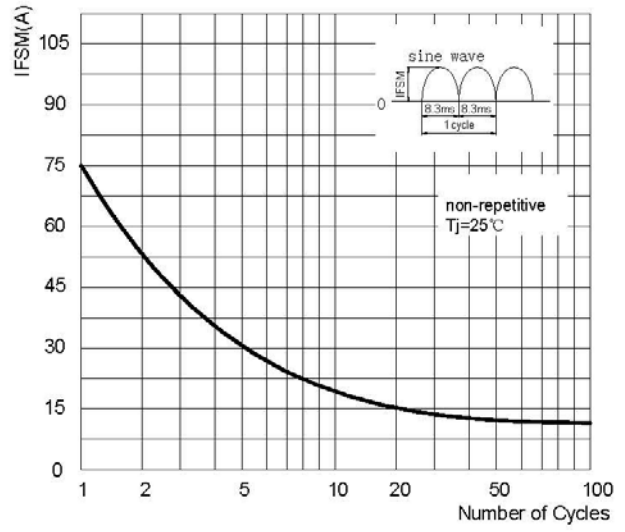
Parameter	Symbols	YBS2 0005	YBS2 001	YBS2 002	YBS2 004	YBS2 006	YBS2 008	YBS2 010	Units
	Marking	YBS2 0005	YBS2 001	YBS2 002	YBS2 004	YBS2 006	YBS2 008	YBS2 010	-
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_c = 110^\circ\text{C}$	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	75							A
Maximum Forward Voltage at 2 A	$V_F$	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	$I_R$	5 500							$\mu\text{A}$
Typical Thermal Resistance <sup>1)</sup>	$R_{\theta JA}$	55							$^\circ\text{C/W}$
	$R_{\theta JC}$	10							$^\circ\text{C/W}$
	$R_{\theta JL}$	15							$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150							$^\circ\text{C}$

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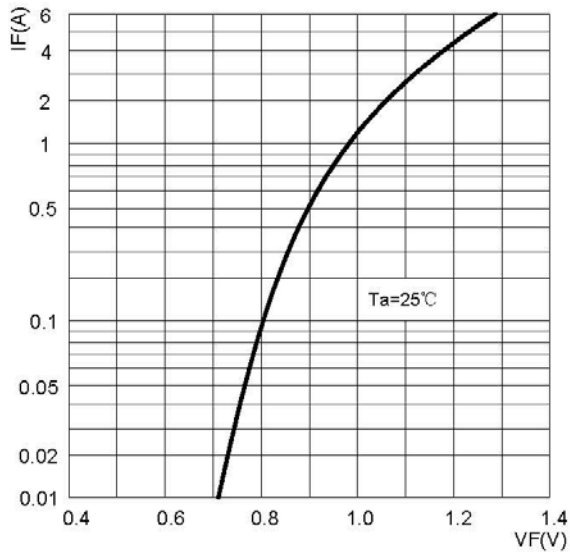
**Io-Tc Curve**



**Surge Forward Current Capacity**



**Forward Voltage**



**Typical Reverse Characteristics**

