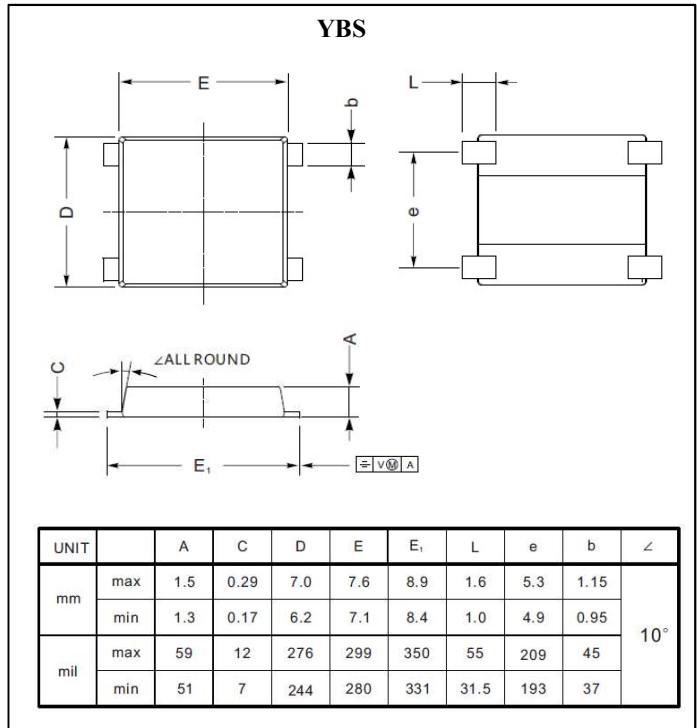
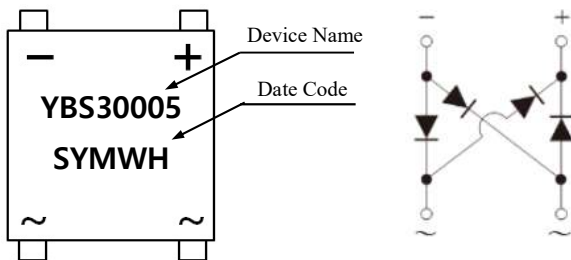


Surface Mount Bridge Rectifiers
Reverse Voltage 50 to 1000 Volts, Forward Current 3.0 Amperes
Features

- For surface mounted application
- Glass passivated junction chip
- Fast switching for high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case : YBS Package
- Terminals : Solderable per MIL-STD-750
- Polarity : Polarity as marked on the body
- Approx. Weight : 0.234g (approximately)

Marking

Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

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

For capacitive load, derate current by 20%

Parameter	Symbol	YBS 30005	YBS 3001	YBS 3002	YBS 3004	YBS 3006	YBS 3008	YBS 3010	Unit	Remark
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	$I_F(AV)$	3.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	95							A	
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0							uA	Ta=25°C
		500							uA	Ta=125°C
Typical Thermal Resistance	$R_{th(j-a)}$	55							°C /W	Note 2
Operation Junction Temperature Range	T_J	-55 to +150							°C	
Storage Temperature Range	T_{STG}	-55 to +150							°C	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. Mounted on glass epoxy PC board with 4×1.5"×1.5"(3.81×3.81cm) copper pad.

Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

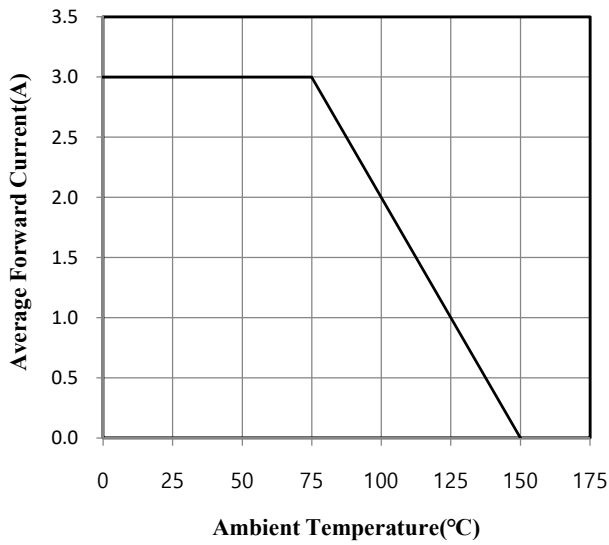


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

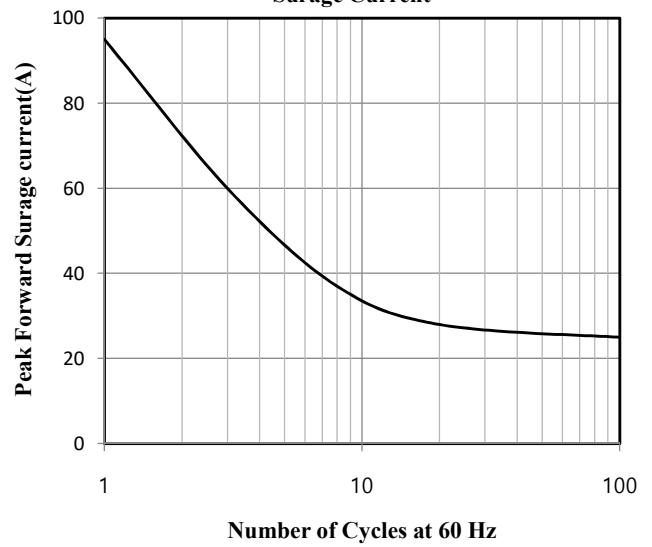


Fig.3 Typical Instantaneous Forward Characteristics

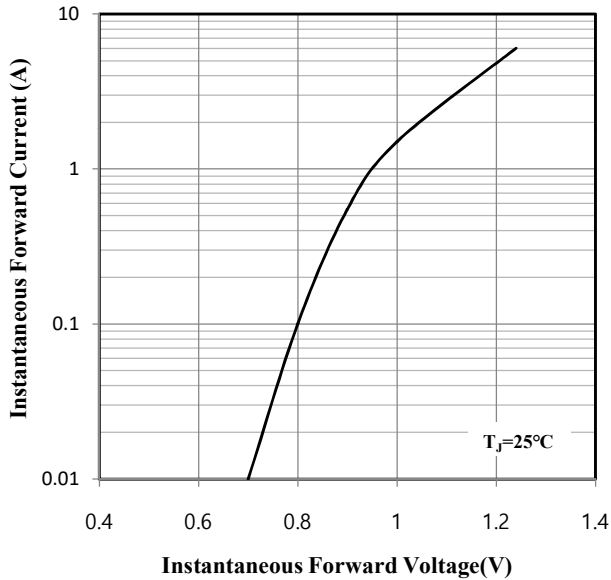


Fig.4 Typical Reverse Characteristics

