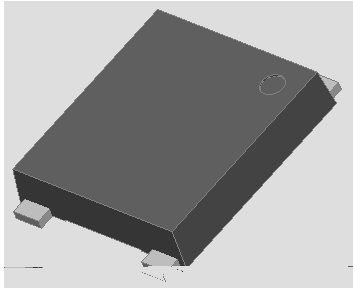


Bridge Rectifiers

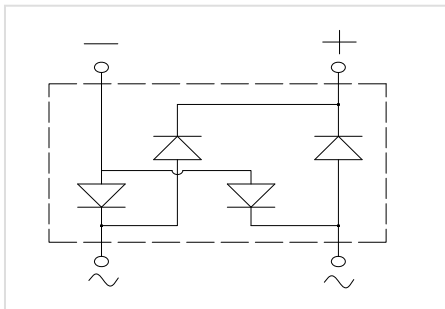


Features

- UL recognition, file #E313149
- Glass passivated chip junction
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.



Mechanical Data

- **Package:** YBS
Molding compound meets UL 94 V-0 flammability rating, RoHS-comp

									YBS3008	YBS3010
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V								

Average rectified output current @60Hz sine wave, R-load, $T_c=110$	I_O	A	3.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	I_{FSM}	A	110							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			220							
Current squared time @1ms≤t<8.3ms $T_j=25$ Rating of per diode	I^2t	A^2s	50.2							
Storage temperature	T_{stg}		-55 ~ +150							
Junction temperature	T_j		-55 ~ +150							



YBS30005 THRU YBS3010

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=1.5A$	1.0						
DC reverse current at blocking voltage per	I_R	μA	$T_j=25$	5						
			$T_j=125$	100						
Junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	34						

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	YBS30005	YBS3001	YBS3002	YBS3004	YBS3006	YBS3008	YBS3010
Between Junction and Ambient	$R_{\theta J-A}$	/W	55.0						
Between Junction and Lead	$R_{\theta J-L}$		15.0						
Between Junction and Case	$R_{\theta J-C}$		10.0						

Device mounted on P.C.B with 35mm*25mm*1.7mm.

Packing Information (Example)

ORDER P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	
-----------	--------------	----------------	----------------------	-------------------------	--



YBS30005 THRU YBS3010

FIG3: Typical Forward Voltage

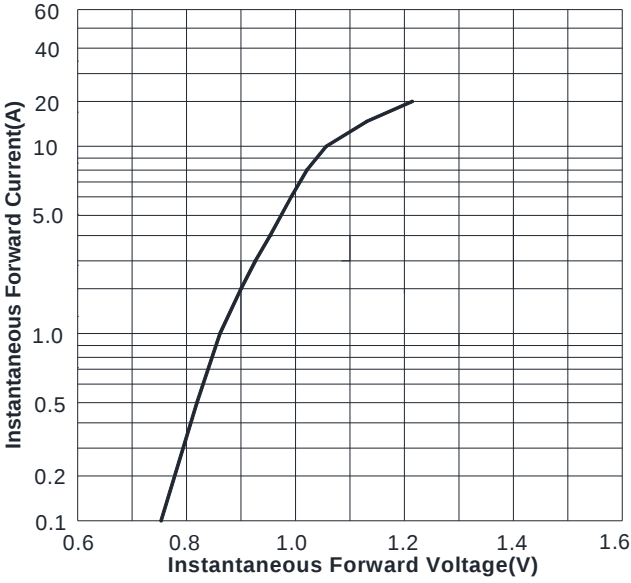
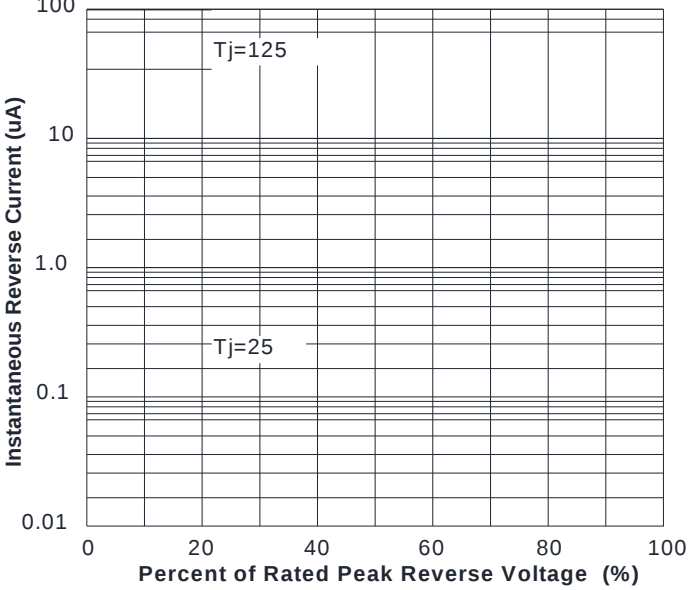


FIG4: Typical Reverse Characteristics



■ Outline Dimensions

YBS		
Dim	Min	Max
A	5.00	5.20
B	6.50	6.70
C	7.20	7.40
D	7.90	8.60
E	2.90	3.10
F	0.04	0.08
G	0.27	0.40
H	1.30	1.50
I	0.95	1.15
J	0.70	1.05

