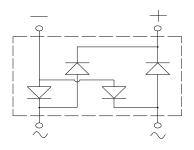




Low VF Bridge Rectifiers





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-compliant, Halogen-free

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	YBSL3006A
Device marking code			YBSL3006A
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	600
Maximum RMS Voltage	V _{RMS}	V	420
Maximum DC blocking Voltage	V _{DC}	V	600
Average rectified output current @60Hz sine wave, R-load, Tc=125℃	Io	Α	3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		Α	120
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I _{FSM}		240
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	59.8
Storage temperature	Tstg	°C	-55 ~ +150
Junction temperature	Tj	°C	-55 ~ + 150

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Тур	Max
Instantaneous forward voltage drop per diode	VF	V	IFM=1.5A	0.7	0.86	0.92
DC reverse current at rated DC	ĪR	μА	T _j =25°C	•	0.085	5
blocking voltage per diode			Tj =125°C	-	25	100
Junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	25	45	65

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YBSL3006A

■Thermal Characteristics (Ta=25°C Unless otherwise specified)

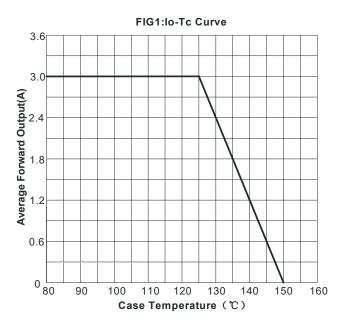
	PARAMETER	SYMBOL	UNIT	YBSL3006A
Tomical	Between Junction and Ambient	R _{θJ-A}	°C/W	55.0
Typical Thermal Resistance	Between Junction and Lead	$R_{\theta J-L}$		15.0
resistance	Between Junction and Case	R _{θJ-C}		8.0

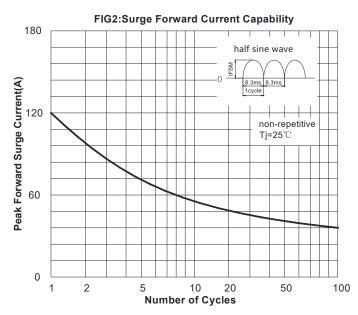
Note: Device mounted on P.C.B with 35mm*25mm*1.7mm.

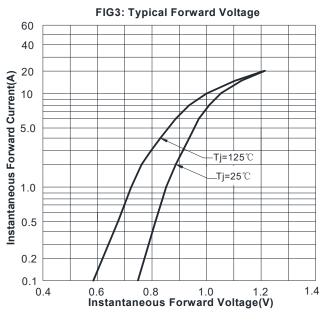
■Ordering Information (Example)

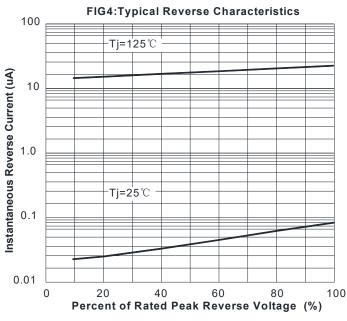
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YBSL3006A	F1	Approximate 0.220	3000	1	42000	13" reel

■ Characteristics(Typical)



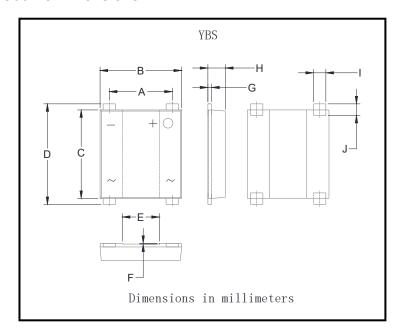






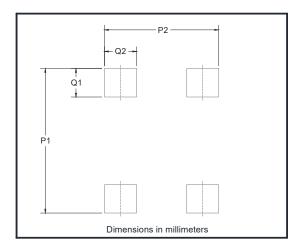


■ Outline Dimensions



YBS						
Dim	Min	Max				
Α	5.00	5.20				
В	6.50	6.70				
С	7.20	7.40				
D	7.90	8.60				
E	2.90	3.10				
F	0.04	0.08				
G	0.27	0.40				
Н	1.30	1.50				
I	0.95	1.15				
J	0.70	1.05				

■ Suggested pad layout



Dim	Min
P1	9.15
P2	7.10
Q1	1.80
Q2	2.00



YBSL3006A

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