

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Glass passivated chip
- High surge forward current capability

APPLICATIONS

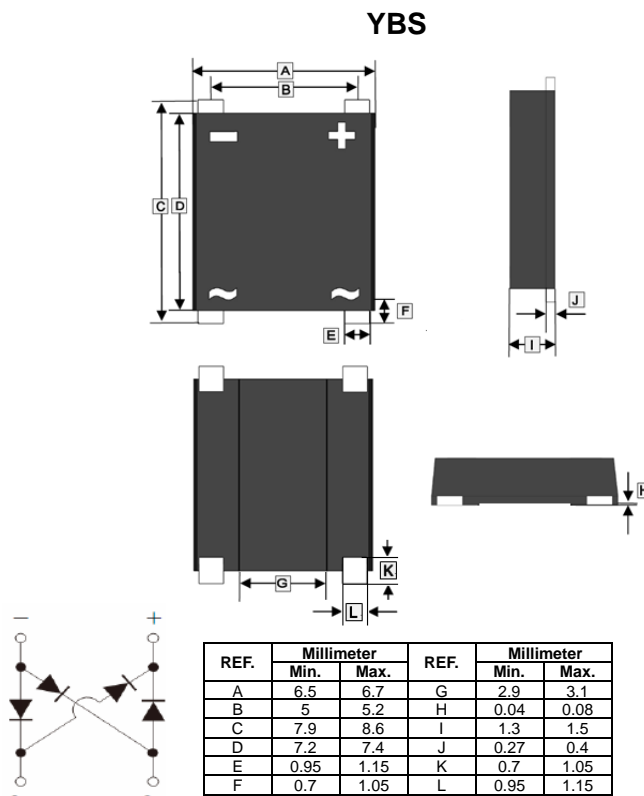
- General purpose 1 phase bridge rectifier applications

PACKAGE INFORMATION

Package	MPQ	Leader Size
YBS	3K	13 inch

ORDER INFORMATION

Part Number	Type
YBS2210	Lead (Pb)-free
YBS2210-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum Average Rectified Output Current@ 60Hz sine-wave, R-load, $T_c=110^\circ\text{C}$	I_o	2.2	A
Maximum Non-repetitive Surge Forward Current@ 60Hz sine-wave, 1 cycle, $T_J=25^\circ\text{C}$	I_{FSM}	90	A
Peak Forward Voltage@ pulse measurement, rating of per diode	V_{FM}	1.0	V
	$I_{FM}=1.1\text{A}$		
Maximum Current Square Time@ $1\text{ms} \leq t \leq 8.3\text{ms}$, $T_J=25^\circ\text{C}$, rating of per diode	I^2t	33	A^2S
Peak Reverse Current@ $V_{RM}=V_{RRM}$, pulse measurement, rating of per diode	I_{RRM}	$T_J=25^\circ\text{C}$	5
		$T_J=100^\circ\text{C}$	100
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	55	$^\circ\text{C} / \text{W}$
Typical Thermal Resistance from Junction to Lead	$R_{\theta JL}$	15	$^\circ\text{C} / \text{W}$
Typical Thermal Resistance from Junction to Case	$R_{\theta JC}$	10	$^\circ\text{C} / \text{W}$
Operating Junction and Storage temperature range	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

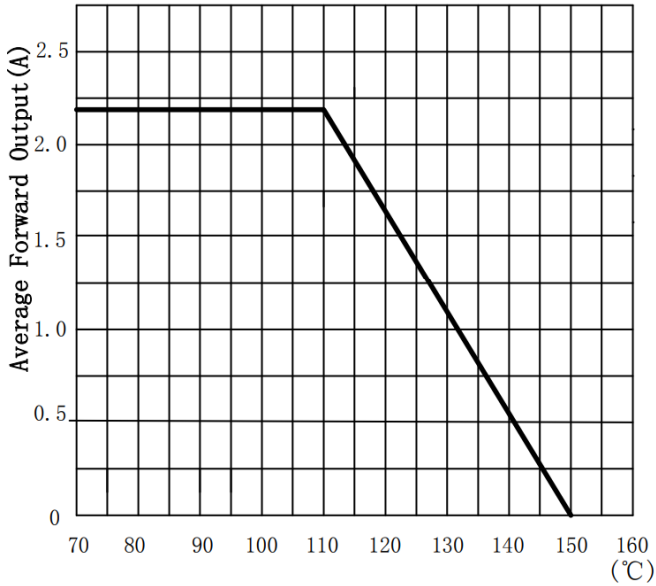


FIG2:Surge Forward Current Capability

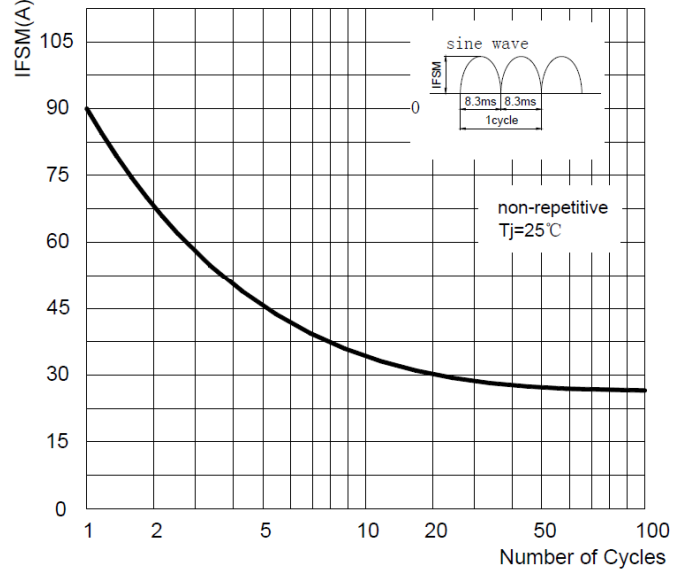


FIG3: Forward Voltage

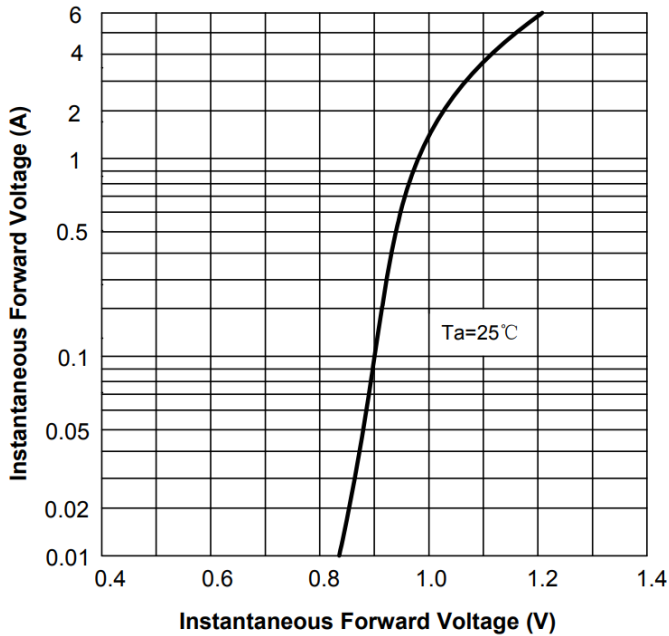


FIG4:Typical Reverse Characteristics

