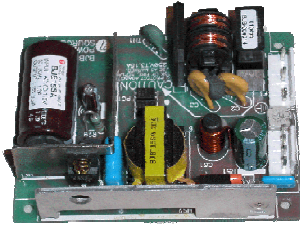




# ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY  
SINGLE CHANNEL OUTPUT  
25 WATTS



## BJA-SA-U SERIES

### General Description

"BJ"-Series AC/DC Switching power supplies low cost and module-type was developed to meet the broad needs by making the dimensions amazingly small. The dimension of this series are about 40%(BJS 10W) and 33%(BJB 50 W) respectively smaller than those of the current products of our company.

### Application

Broad needs

### Input

<b>Input Voltage:</b>	AC100-115V
<b>Input Voltage Range:</b>	AC85~132V(DC 110-175)
<b>Frequency:</b>	50/60Hz
<b>Range:</b>	47-440Hz
<b>Phase:</b>	Single
<b>Inrush Current: *1</b>	30A(Typ.) at AC100V



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# ETA-USA

## HIGH QUALITY SWITCHING POWER SUPPLIES

Specifications<AC/DC> BJA**SA 25WATTS/SINGLE	Model					
	BJA3.3SA-U	BJA05SA-U	BJA12SA-U	BJA15SA-U	BJA24SA-U	BJA48SA-U
<b>Input Characteristic</b>						
Input Voltage	AC100-115V					
Input Range	AC85-132V(DC110-175V)					
Input Frequency	50/60Hz					
Input Frequency Range	47-440Hz					
Phase	Single					
Inrush Current *1	15A(typical) at AC100V					
Efficiency [%] (typical) *2	78	80	85	86	85	87

Specifications<AC/DC> BJA**SA 25WATTS/SINGLE	Model					
	BJA3.3SA-U	BJA05SA-U	BJA12SA-U	BJA15SA-U	BJA24SA-U	BJA48SA-U
Output Voltage [V]	3.3	5	12	15	24	48
Output Current [A]	5	5	2.1	1.7	1.1	0.55
Voltage Adjust Range	not available					
Ripple and Noise [mVp-p](maximum) *3	100	150	220	250	340	580
<b>Regulation</b>						
a.Statistic Line Regulation [mV](maximum)	26	40	96	120	192	384
b.Statistic Load Regulation [mV](maximum)	30	45	108	135	216	432
c.Temperature Coefficient *4	0.03%/°C					
d.Drift[mV](maximum) *5	32	40	45	60	75	90
Rise up time	200mS(maximum) at 25°C and rated input/output					
Hold up time	20mS(typical) at 25°C and rated input/output					
<b>Functions</b>						
Overcurrent Protection	Foldback/Current Limiting with automatic recovery at discontinuous short circuit condition					
Overvoltage Protection >=115% of Rated Output Voltage[V]	Output Voltage Limiting(not for continous operating)					
Remote Sense	not available					
<b>Environmental</b>						
Operating Temperature (derating)	-10 to 71°C 3.5%/°C(50°C to 71°C)(out of warranty on/over 71°C)					
Operating Humidity	20 to 90%RH(non-condensing)					
Storage Temperature	-20 to +85°C					
Storage Humidity	10 to 90%RH(non-condensing)					
Withstanding Voltage	Primary-Secondary AC1,500V for 1minute at 10mA Primary-Frame Ground AC1,500V for 1minute at 10mA Secondary-Frame Ground AC1,000V for 1minute at 10mA					
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester					
Vibration	5-10Hz: 10mm double amplitude, 10-55Hz: 19.6m/s <sup>2</sup> , 20minutes' period for 60minutes each along X,Y,Z axes(non-operating)					
Shock	196m/s <sup>2</sup>					
Cooling	Convection					
Leakage Current	55uA(typical) at 50Hz, AC100V input measured by Yokogawa #3226 1KΩm/0.1uF					
Line Conducted Noise	Built to meet FCC Part15-B Class B Built to meet VCCI Class B					
Weight (typical)	85g(board type switcher)					
MTBF [H]	730,000					
Switching Frequency[kHz](typical)	7.5 at rated input/output					

