

IB_LS-1W/ IB_LD-1W Series

**FIXED INPUT ISOLATED & REGULATED 1W
SINGLE OUTPUT
MINIATURE SIP/DIP PACKAGE**



multi-country patent protection **RoHS**

FEATURES

- Small Footprint
- SIP/DIP Package
- 1KVDC Isolation
- Regulated Output Voltage
- Temperature Range: -40°C ~+85°C
- Industry Standard Pinout
- No Heat Sink Required
- No External Component Required
- Fully Encapsulated
- RoHS Compliance

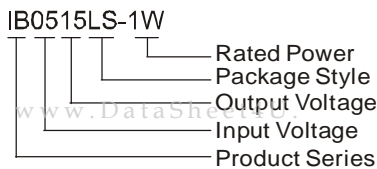
APPLICATIONS

The IB_LS(D)-1W Series are specially designed for applications where a single power supply is highly isolated from the input power supply in a distributed power supply system on a circuit board.

These products apply to:

- 1) Where the voltage of the input power supply is fixed (voltage variation $\leq \pm 5\%$);
- 2) Where isolation is necessary between input and output (isolation voltage = 1000VDC);
- 3) Where the regulation of the output voltage and the output ripple and noise are demanded.

MODEL SELECTION



PRODUCT PROGRAM

Part Number	Input		Output			Efficiency (% Typ)	Package Style
	Voltage (VDC)		Voltage (VDC)	Current (mA)			
	Nominal	Range		Max	Min		
IB0305LS/D-W75	3.3	3.13~3.46	5	150	15	66	SIP/DIP
IB0505LS/D-W75	5	4.75~5.25	5	150	15	67	SIP/DIP
IB0505LS/D-1W			5	200	20	67	SIP/DIP
IB0509LS/D-1W			9	111	12	71	SIP/DIP
IB0512LS/D-1W			12	83	9	72	SIP/DIP
IB0515LS/D-1W			15	67	7	73	SIP/DIP
IB0524LS/D-1W			24	42	4	68	SIP/DIP
IB1205LS/D-W75			12	11.4~12.6	5	150	15
IB1205LS/D-1W	5	200			20	70	SIP/DIP
IB1209LS/D-1W	9	111			12	72	SIP/DIP
IB1212LS/D-1W	12	83			9	70	SIP/DIP
IB1215LS/D-1W	15	67			7	74	SIP/DIP
IB1224LS/D-1W	24	42			4	68	SIP/DIP
IB2405LS/D-W75	24	22.8~25.2			5	150	15
IB2405LS/D-1W			5	200	20	68	SIP/DIP
IB2409LS/D-1W			9	111	12	73	SIP/DIP
IB2412LS/D-1W			12	83	9	73	SIP/DIP
IB2415LS/D-1W			15	67	7	75	SIP/DIP
IB2424LS/D-1W			24	42	4	68	SIP/DIP

Note: The IB_LS(D)-W2 series also are available in our company.

COMMON SPECIFICATION

Short circuit protection	1 second
Temperature rise at full load	25°C (MAX), 15°C (TYP)
Cooling	Free air convection
No-load power consumption	10% nominal power (typical)
Operating temperature range	-40°C ~+85°C
Storage temperature range	-55°C ~+125°C
Lead temperature*	300°C (1.5mm from case for 10 seconds)
Storage humidity range	$\leq 95\%$
Case material	Plastic (UL94-V0)
MTBF	>3,500,000 hours

ISOLATION SPECIFICATIONS

Item	Test condition	Min	Typ	Max	Units
Isolation voltage	Tested for 1 minute	1000			VDC
Isolation resistance	Test at 500VDC	1000			MΩ

OUTPUT SPECIFICATIONS

Item	Test condition	Min	Typ	Max	Units
Output power		0.1		1	W
Line regulation	For Vin change of $\pm 5\%$			0.25	%
Load regulation	10% to 100% full load			± 1	%
Output voltage	100% full load			± 0.03	%
Temperature drift	100% full load			± 0.03	%/°C
Output ripple	20MHz bandwidth		10	20	mVp-p
Output noise	20MHz bandwidth		50	100	mVp-p
Switching frequency	Full load, nominal input voltage		100		KHz

Note:

1. All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
2. See below recommended circuits for more details.

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