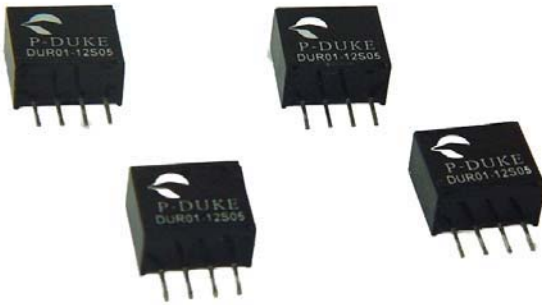


DUR SERIES

DC / DC Single Output: 1 Watt



Features

- 1.0 watt output power, PCB mounting
- Input options: 5V, 12V, 15V & 24vdc
- Industry standard footprint
- 1000V isolation
- Single-in-line (SIP) package
- High efficiency
- High MTBF >1m hrs
- High operating temperature
- Non-Conductive case
- Non Regulated

Specifications:

Input Voltage	3.3VDC (3.0 ~ 3.6) 5VDC (4.5 V~ 5.5) 12VDC (10.8 ~ 13.2) 15VDC (13.5 ~ 16.5) 24VDC (21.6 ~ 26.4)	Isolation Capacitance	80pF max.
Input Filter	Capacitor	Switching Frequency	90KHz
Efficiency	Model dependent 68-80%	Safety	IEC60950, EN60950, UL60950
Output Power	1 watt	Case Material	Non-conductive black plastic
Voltage Accuracy	±5% (full load and nominal input)	Potting Material	Epoxy UL94-V0
Minimum Load	10% to meet regulation	Operating Temperature	-40°C to + 85°C (non derating)
Line Regulation	1.3% per 1% Vin (10 ~ 100% load)	Thermal Shock	MIL-STD-810F
Load Regulation	3.3V & 5V output: ±15% (10% to 100% load) Other outputs ±10% (10% to 100% load)	Vibration	10-55Hz, 10G, 30 min along X, Y and Z
Ripple & Noise	See table (20MHz bandwidth)	Humidity	5% to 95% RH
Temperature Coefficient	±0.1% per °C max	MTBF	1.137 x 10 ⁹ hrs
Short circuit Protection	Short Term	Dimensions	11.5 x 6.0 x 10.2mm
Isolation Voltage	Input – Output: 1000VDC	Weight	1.5g

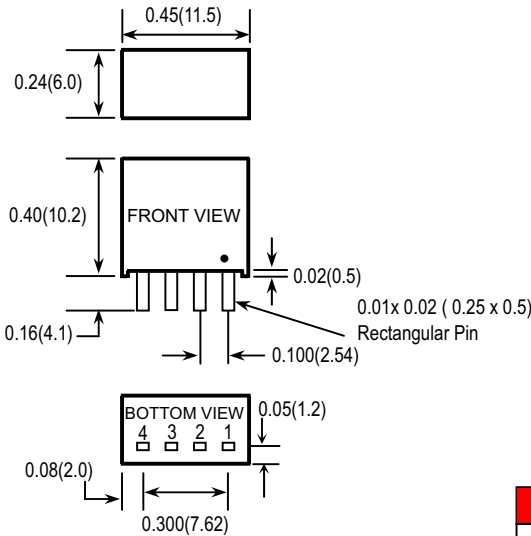
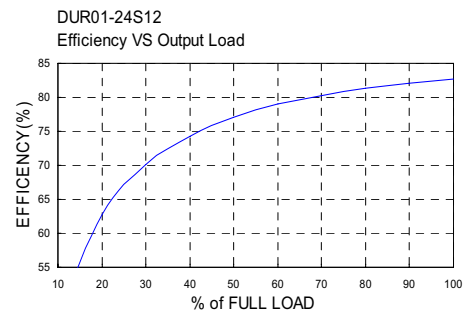
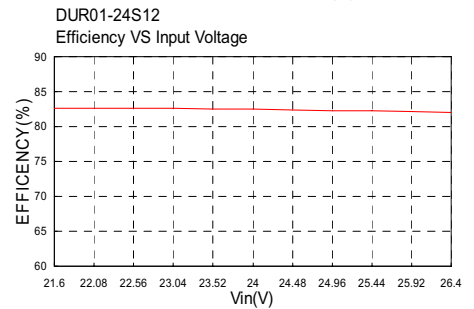
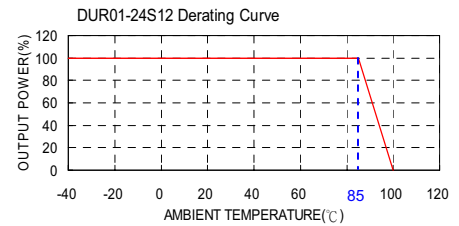
DUR SERIES

DC / DC Single Output: 1 Watt

Model	Input V	Output V	Output Current		Output Ripple & Noise	Input Current		Eff (%)	Capacitor Load max
			Min. load	Full load		No load	Full load		
DUR01-33S33	3.0 – 3.6 V	3.3 V	30.3mA	303mA	100mVp-p	42mA	473mA	68	6.2uF
DUR01-33S05	3.0 – 3.6 V	5 V	20mA	200mA	100mVp-p	38mA	451mA	70	6.2uF
DUR01-33S12	3.0 – 3.6 V	12 V	8.4mA	84mA	100mVp-p	45mA	449mA	72	6.2uF
DUR01-33S15	3.0 – 3.6 V	15 V	6.6mA	66mA	100mVp-p	45mA	423mA	75	6.2uF
DUR01-05S33	4.5 – 5.5 V	3.3 V	30.3mA	303mA	100mVp-p	25mA	312mA	68	6.2uF
DUR01-05S05	4.5 – 5.5 V	5 V	20mA	200mA	100mVp-p	25mA	303mA	70	6.2uF
DUR01-05S12	4.5 – 5.5 V	12 V	8.4mA	84mA	100mVp-p	25mA	272mA	78	6.2uF
DUR01-05S15	4.5 – 5.5 V	15 V	6.6mA	66mA	100mVp-p	24mA	262mA	80	6.2uF
DUR01-12S33	10.8 – 13.2 V	3.3 V	30.3mA	303mA	100mVp-p	14mA	131mA	68	6.2uF
DUR01-12S05	10.8 – 13.2 V	5 V	20mA	200mA	100mVp-p	10mA	126mA	70	6.2uF
DUR01-12S12	10.8 – 13.2 V	12 V	8.4mA	84mA	100mVp-p	14mA	113mA	78	6.2uF
DUR01-12S15	10.8 – 13.2 V	15 V	6.6mA	66mA	100mVp-p	13mA	109mA	80	6.2uF
DUR01-15S33	13.5 – 16.5 V	3.3 V	30.3mA	303mA	100mVp-p	9mA	105mA	68	6.2uF
DUR01-15S05	13.5 – 16.5 V	5 V	20mA	200mA	100mVp-p	9mA	101mA	70	6.2uF
DUR01-15S12	13.5 – 16.5 V	12 V	8.4mA	84mA	100mVp-p	8mA	91mA	78	6.2uF
DUR01-15S15	13.5 – 16.5 V	15 V	6.6mA	66mA	100mVp-p	9mA	87mA	80	6.2uF
DUR01-24S33	21.6 – 26.4 V	3.3 V	30.3mA	303mA	100mVp-p	6mA	64mA	70	6.2uF
DUR01-24S05	21.6 – 26.4 V	5 V	20mA	200mA	100mVp-p	6mA	63mA	70	6.2uF
DUR01-24S12	21.6 – 26.4 V	12 V	8.4mA	84mA	100mVp-p	5mA	57mA	78	6.2uF
DUR01-24S15	21.6 – 26.4 V	15 V	6.6mA	66mA	100mVp-p	6mA	54mA	80	6.2uF

Notes

1. MTBF as per BELLCORE TR-NWT-000332. Case 1: 50% Stress, Temperature at 40°C. (Ground fixed and controlled environment)
2. Typical values at nominal input voltage and full resistive load.
3. The output requires a minimum loading on the output to maintain specified regulation. Operation under no-load condition will not damage these devices, however they may not meet all listed specification.



Pin Assignment	
PIN	SINGLE
1	- INPUT
2	+ INPUT
3	- OUTPUT
4	+ OUTPUT

1. All dimensions in Inches (mm)
Tolerance: X.XX±0.02 (X.X±0.5)
X.XXX±0.01 (X.XX±0.25)
2. Pin pitch tolerance ±0.01(0.25)
3. Pin dimension tolerance ±0.004 (0.1)