



POWER MATE TECHNOLOGY CO.,LTD.

DUR01 SERIES

SINGLE AND DUAL UNREGULATED OUTPUT 1 WATT DC/DC CONVERTERS



- UP TO 1 WATTS OUTPUT POWER
- 4 PIN SIL PACKAGE
- INPUT / OUTPUT 1KVDC ISOLATION
- UNREGULATED OUTPUT TYPES

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

INPUT SPECIFICATIONS

Input voltage range	3.3V nominal.....3.0 to 3.6V
5V nominal.....	4.5 to 5.5V
12V nominal.....	10.8 to 13.2V
24V nominal.....	21.6 to 26.4V

OUTPUT SPECIFICATIONS

Output voltage accuracy	±5%
Ripple and noise, 20MHz BW.....	100mVP-P max.
Line regulation.....	±1.2%/1% of Vin
Load regulation, rated load to 10% load	
3.3V,5V output.....	10%,max
All other models.....	6%,max
Efficiency.....	70%, typ.
Temperature coefficient.....	±0.1%/°C
Short circuit protection.....	1 second max.

GENERAL SPECIFICATIONS

Switching frequency.....	100kHz, min.
Isolation voltage standard models.....	1000VDC
Isolation resistance.....	10 ⁹ Ohms

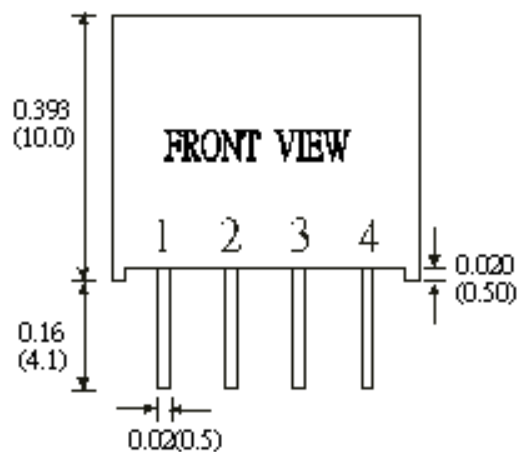
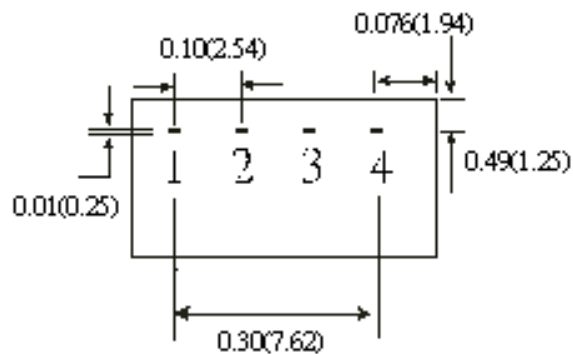
ENVIRONMENTAL SPECIFICATIONS (REFERENCE)

Operating temperature range.....	0°C to +71°C
Storage temperature range.....	-55°C to +105°C
Cooling.....	Free-air convection

PHYSICAL SPECIFICATIONS

Case Material.....	Non-Conductive Black Plastic
Dimensions:	
Single output.....	0.45 x 0.4 x 0.24 Inches
Dual output.....	0.5 x 0.5 x 0.4 Inches

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT
DUR01-33S33	3.3VDC	303mA
DUR01-33S05	5VDC	200mA
DUR01-33S12	12VDC	84mA
DUR01-33S15	15VDC	67mA
DUR01-05S33	3.3VDC	303mA
DUR01-05S05	5VDC	200mA
DUR01-05S12	12VDC	84mA
DUR01-05S15	15VDC	67mA
DUR01-12S33	3.3VDC	303mA
DUR01-12S05	5VDC	200mA
DUR01-12S12	12VDC	84mA
DUR01-12S15	15VDC	67mA
DUR01-24S33	3.3VDC	303mA
DUR01-24S05	5VDC	200mA
DUR01-24S12	12VDC	84mA
DUR01-24S15	15VDC	67mA



PIN CONNECTIONS	
PIN#	SINGLE
1	-Vin
2	+Vin
3	-Vout
4	+Vout