



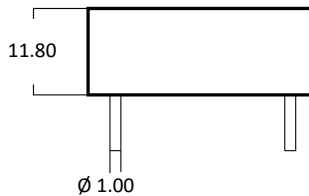
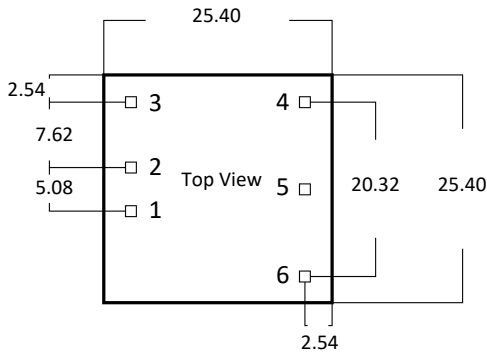
- 4:1 Voltage Input Range
- Both Metal Case and Plastic Case Available
- MTBF: 2.000.000 Calculated Hours
- Single or Dual Output
- Up to 3000V Isolation Available
- Excellent Shielding and Interference Function

### Electrical Shortform Specifications

Electrical Specification	Input Voltage:	See Product Chart Page 2
	Output Voltage (Vout):	See Product Chart Page 2
	Switch Frequency:	270kHz to 400kHz
	Input Characteristic:	Built In - Output Filter
	Ripple:	Max. 240mVp-p
	Noise:	Max. 480mVp-p
	Efficiency:	Up to 85%
	Output Load Efficiency:	≤ ±1% (0% to 100% Load)
	TEMP. Coefficient:	≤ ±0.02% °C (Celsius)
Protection (Auto Recovery)	MTBF:	2.000.000 Hours
	Isolation I/O:	1500V / 0.5mA for 1min (Up to 3000V is Available)
	Short Circuit Protection:	Short Circuit (1sec)
	Over Load Protection:	Yes
Certifications & EMC	Over TEMP. Protection:	Yes
	Approvals:	CE / RoHS
Environmental	EMC	EN61000
	Operating TEMP.:	-40°C to +85°C
	Storage TEMP.:	-40°C to +125°C
Dimension & Material	Cooling:	Natural Cooling
	Case Material:	Metal or Plastic
	Case Size (L x W x H):	25.40 x 25.40 x 11.80mm
	Weight:	12g (±0.5)
	Soldering Temperature:	≤10sec 300°C Max.

**Note** - Non Load Operation for a Long time is Not Recommended  
For Complete Datasheet/Specification and Drawing Please Contact Power Outlet

### Drawing & Measurements: mm



URFDxxSxx - Single Output

Pin	Function
1	Vin
2	GND
3	CNT
4	OV
5	TRM
6	+Vout

URFDxxDxx - Dual Output

Pin	Function
1	Vin
2	GND
3	CNT
4	OV
5	TRM
6	+Vout

### Product Chart

Model	Input Voltage (Vdc)	Output Voltage (Vout)	Load Current (mA)	Efficiency (%)	Ripple & Noise (mVp-p Max.)
URFD05S05 20W	5Vdc (4.5-18Vdc)	5	4000	80	240/480
URFD05S12 20W		12	1666	85	240/480
URFD05S15 20W		15	1333	85	240/480
URFD05S24 20W		24	833	85	240/480
URFD12S05 20W	12Vdc (9-36Vdc)	5	4000	80	240/480
URFD12S12 20W		12	1666	85	240/480
URFD12S15 20W		15	1333	85	240/480
URFD12S24 20W		24	833	85	240/480
URFD24S05 20W	24Vdc (18-72Vdc)	5	4000	80	240/480
URFD24S12 20W		12	1666	85	240/480
URFD24S15 20W		15	1333	85	240/480
URFD24S24 20W		24	833	85	240/480
URFD05D05 20W	5Vdc (4.5-18Vdc)	±5	±2000	80	240/480
URFD05D12 20W		±12	±833	85	240/480
URFD05D15 20W		±15	±667	85	240/480
URFD05D24 20W		±24	±417	85	240/480
URFD12D05 20W	12Vdc (9-36Vdc)	±5	±2000	80	240/480
URFD12D12 20W		±12	±833	85	240/480
URFD12D15 20W		±15	±667	85	240/480
URFD12D24 20W		±24	±417	85	240/480
URFD24D05 20W	24Vdc (18-72Vdc)	±5	±2000	80	240/480
URFD24D12 20W		±12	±833	85	240/480
URFD24D15 20W		±15	±667	85	240/480
URFD24SD4 20W		±24	±417	85	240/480

\* For 3000V Isolation add Suffix "H3", 4000V Isolation "H4", 6000V Isolation "H6" (URFDxxS(D)xxHx xxW)