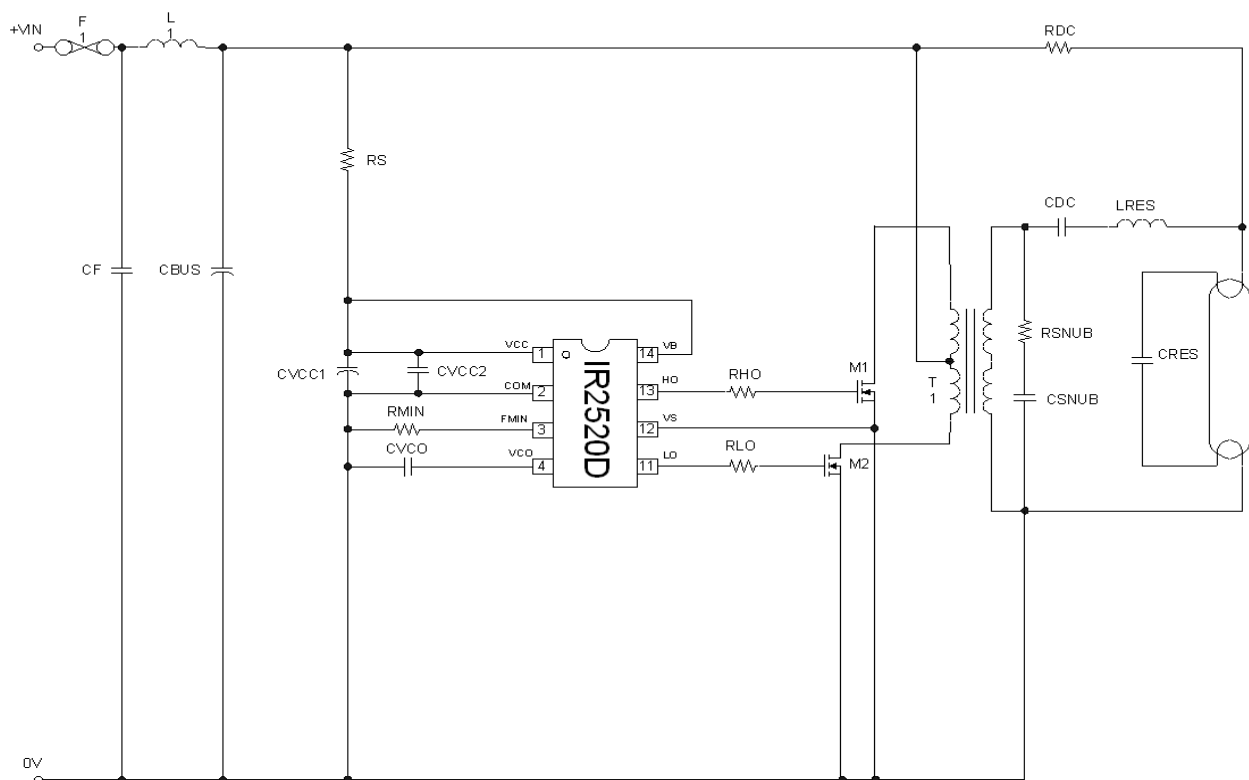




International Rectifier **TRANSFORMER SPECIFICATION**

CORE SIZE

BOBBIN PINS

CORE MATERIAL

PRIMARY INDUCTANCE mH

MAGNETIZING CURRENT Apk

MAXIMUM CORE TEMPERATURE °C

WINDING	START PIN	FINISH PIN	TURNS	WIRE DIAMETER (mm)
Primary			46	0.5
Secondary			314	0.2

ELECTRICAL LAYOUT

PHYSICAL LAYOUT

TEST (TEST FREQUENCY = 50Hz)

PRIMARY WINDING INDUCTANCE mH mH

SECONDARY WINDING RESISTANCE Ohms

NOTE : Transformer must not saturate at maximum current and maximum core temperature at given test frequency

International
ISIRI Rectifier

INDUCTOR SPECIFICATION
 TYPE : LRES (CURRENT MODE)

CORE SIZE

E25/13/7 (EF25)

GAP LENGTH

2

mm

BOBBIN

HORIZONTAL

CORE MATERIAL

Philips 3C85, Siemens N27 or equivalent

NOMINAL INDUCTANCE

2.8

mH

MAXIMUM CURRENT

1

Apk

MAXIMUM CORE TEMPERATURE

100

°C

WINDING	START PIN	FINISH PIN	TURNS	WIRE DIAMETER (mm)
MAIN			294	0.2

ELECTRICAL LAYOUT

PHYSICAL LAYOUT

TEST (TEST FREQUENCY = 50kHz)

MAIN WINDING INDUCTANCE

MIN

mH

MAX

mH

MAIN WINDING RESISTANCE

MIN

Ohms

NOTE : Inductor must not saturate at maximum current and maximum core temperature at given test frequency.

Qty	Type	Value	Rating	Tolerance	Reference	
1	DC Bus Capacitor	100 uF	50VDC	105C	CBUS	
1	Capacitor	0.1 uF	400V		CDC	
1	Capacitor	0.15 uF	275VAC		CF	
1	Resonant Capacitor	6.8 nF	1500V	5,00%	CRES	
1	Capacitor	680 pF	1KV		CSNUB	
1	Capacitor	2.2 uF			CVCC1	
1	Capacitor	0.1 uF			CVCC2	
1	Capacitor	0.33 uF	25V		CVCO	
1	Fuse	2 A	250VAC		F1	
1	Ballast Control IC	IR2520D			IC BALLAST	
1	Series filter choke	500 uH	2A		L1	
1	Resonant Inductor	2.8 mH	1.0 Apk	5,00%	LRES	
2	Mosfet	IRF540			M1	M2
1	Resistor	22 KOhm	1W		RDC	
2	Resistor	22 Ohm			RHO	RLO
1	Resistor	100 KOhm			RMIN	
1	Resistor	1.3 KOhm			RS	
1	Resistor	1.5 KOhm	1W		RSNUB	
1	Transformer	46T	313T			T1