

For Silicon Laboratories Si3402 PD Controllers



- Designed for Power over Ethernet PD controllers for applications up to 15 Watts.
- Operates in continuous conduction mode with 36 57 V input
- 1500 Vrms, one minute isolation between primary and secondary

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 6.57 – 6.71 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C. Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C /

85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part	Power	Inductance at 0 A ²	Inductance at Ipk ³	DCR max	x (Ohms) 4	Leakage inductance ⁵	Turns ratio ⁶	Ipk ³	
number ¹	(W)	±10% (µH)	min (µH)	pri	sec	max (µH)	pri : sec	(A)	Output ⁷
FA2924-AL_	15	40.0	36.0	0.100	0.025	0.666	1:0.3	2.0	3.3 V, 4.5 A
FA2805-CL_	15	40.0	36.0	0.108	0.040	0.621	1:0.4	2.0	5.0 V, 3.0 A
FA2925-AL_	15	40.0	36.0	0.100	0.155	0.566	1:1	2.0	12.0 V, 1.25 A

1. When ordering, please specify packaging code:

FA2925-ALD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel). B = Less than full reel. In tape, but not machine ready. To have a leader and trailer

added (\$25 charge), use code letter D instead.

- 2. Inductance is for the primary, measured at 200 kHz, 0.2 Vrms, 0 Adc.
- 3. Ipk is peak primary current drawn at minimum input voltage.
- 4. DCR for the secondary is per winding.
- 5. Leakage inductance measured between pins 1 and 2 with all secondary pins shorted.
- 6. Turns ratio is with the secondary windings connected in parallel.
- 7. Output is with the secondary windings connected in parallel.
- 8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Secondary windings to be connected in parallel on PC board



0.050





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0.500 12,70 max □0.004/0,10 <u>0.0</u>39 1.00 $\frac{0.699}{17,75}$ max

Dot above pin1



Document 608 Revised 03/14/12

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