

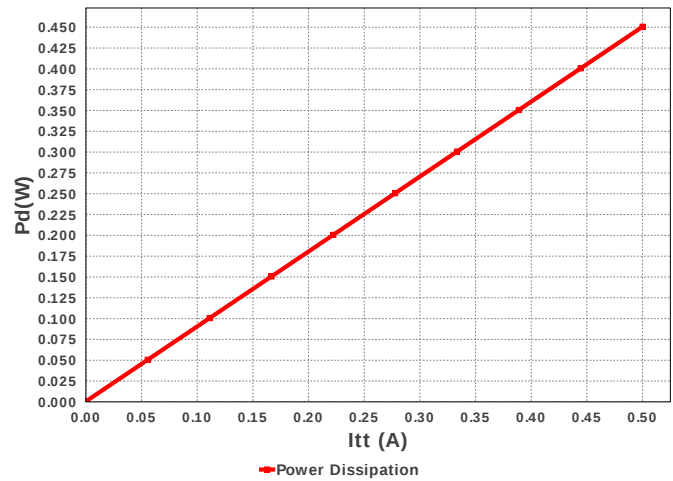


Device = LP2998MR/NOPB
Topology = DDRLDO
Created = 9/21/16 11:29:54 PM
BOM Cost = \$1.44
BOM Count = 5
Total Pd = 0.45W

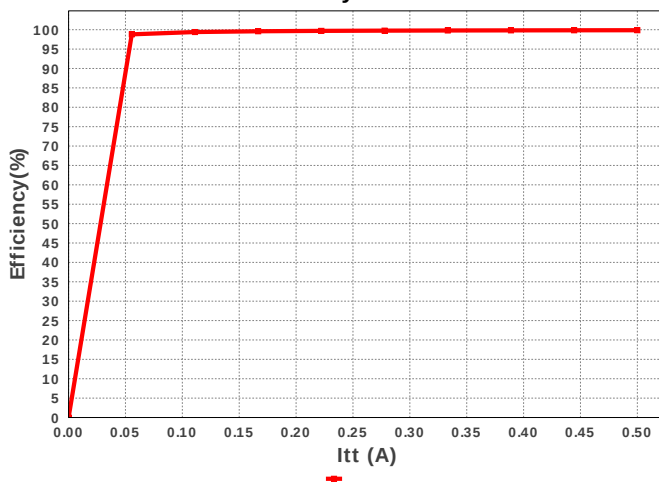
Quiescent Current Iq Vs. AVin



Power Dissipation Vs. Itt



Efficiency Vs. Itt



Operating Values

#	Name	Value	Category	Description
1.	DDR Type	DDR2	DDR Memory	DDR Memory Type
2.	BOM Count	5	General	Total Design BOM count
3.	FootPrint	87.0 mm ²	General	Total Foot Print Area of BOM components
4.	Total BOM	\$1.44	General	Total BOM Cost
5.	AVin_OP	2.2 V	Op_Point	Pvin operating point
6.	Itt_OP	500.0 mA	Op_Point	Itt Operating Point
7.	PVin_OP	1.8 V	Op_Point	Pvin operating point
8.	Ta_OP	25.0 degC	Op_Point	Operating Ambient Temperature
9.	Vddq_OP	1.8 V	Op_Point	Vddq operating point
10.	Vtt_OP	900.0 mV	Op_Point	Vtt operating point
11.	Efficiency	99.866 %	Op_point	Steady state efficiency
12.	IC Tj	44.376 degC	Op_point	IC junction temperature
13.	ICThetaJA	43.0 degC/W	Op_point	IC junction-to-ambient thermal resistance
14.	Total Pd	450.604 mW	Power	Total Power Dissipation

Design Inputs

#	Name	Value	Description
1.	AVin	2.2 A	AVin
2.	DDRTYPE	DDR2	DDRTYPE
3.	Itt	500.0 mA	Itt
4.	PVin	1.8 A	PVin
5.	application	DDRTYPE	application
6.	base_pn	LP2998	Base Product Number
7.	Ta	25.0 A	Ambient temperature

Design Assistance

1. **LP2998** Product Folder : <http://www.ti.com/product/lp2998> : contains the data sheet and other resources.

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