

CONTENT

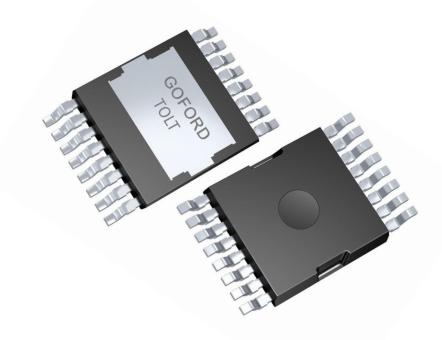
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Introduction

- Features
- Advantages
- Dimension

Application

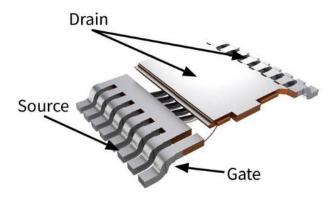
Development



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Features

- Low RDS(on)
- High current rating >300 A
- Top-side cooling
- Negative stand-off
- Sn-free exposed pad
- Gull wing



Top view w/o mould compoud

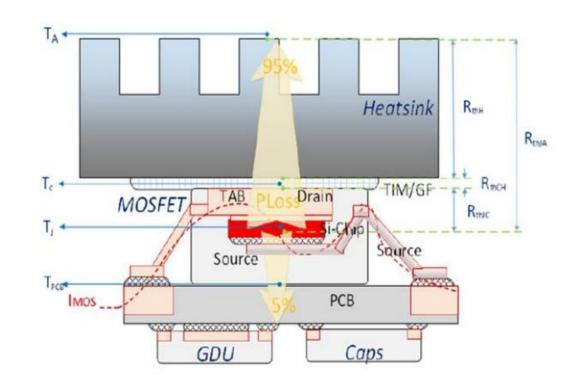


Bottom view w/o mould compoud



Advantages

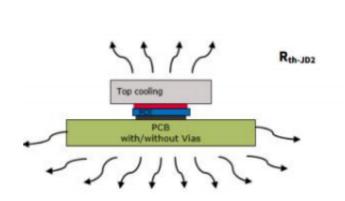
- Increased system efficiency enabling extended battery life time
- High power density
- Small profile, high current
- Superior thermal performance

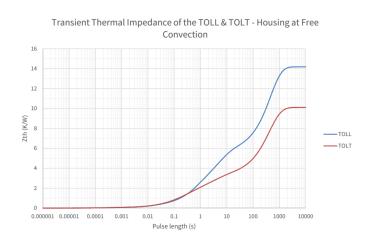


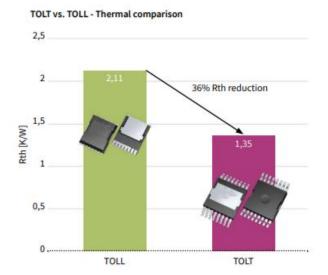
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Advantages

- Saving in cooling system
- Minimized thermal resistance to heatsink, RthJA 20% lower, RthJC 50% improved, Rth(J-heatsink) 36% reduced, increase the current capability

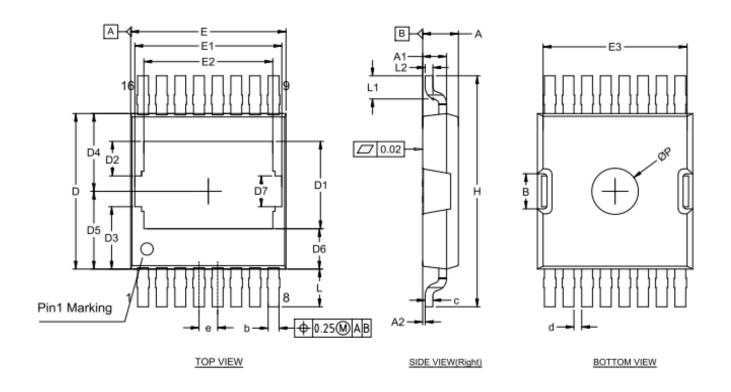






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Dimension



MIN.	NOM.	MAX.
2.250	2.300	2.350
1.440	1.540	1.640
0.010		0.160
0.600	0.700	0.800
0.400	0.500	0.600
0.400	0.500	0.600
1.200 BSC		
10.00	10.100	10.300
5.470	5.670	5.870
2.040	2.240	2.440
4.050 REF.		
5.050 REF.		
5.050 REF.		
2.620 REF.		
2.000 REF.		
9.700	10.000	10.100
9.460 REF.		
8.100	8.300	8.500
9.07	9.270	9.470
14.800	15.000	15.200
2.250	2.450	2.650
1.350	1.500	1.650
0.500 BSC		
2.900	3.000	3.100
2.180	2.280	2.380
2.180	2.280	2.380
	2.250 1.440 0.010 0.600 0.400 10.00 5.470 2.040 9.700 8.100 9.07 14.800 2.250 1.350	2.250 2.300 1.440 1.540 0.010 0.600 0.700 0.400 0.500 1.200 BSC 10.00 10.100 5.470 5.670 2.040 2.240 4.050 REF 5.050 REF 2.620 REF 2.000 REF 9.700 10.000 9.460 REF 8.100 8.300 9.07 9.270 14.800 15.000 2.250 2.450 1.350 1.500 0.500 BSC 2.900 3.000

Application

TOLT are ideal for applications which require high thermal performance, big current and small profile.

E scooter



LEV



Power Tools

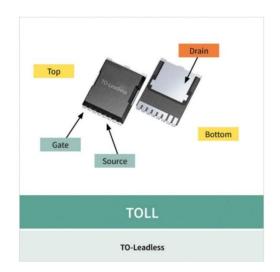


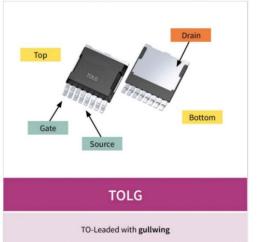
BMS

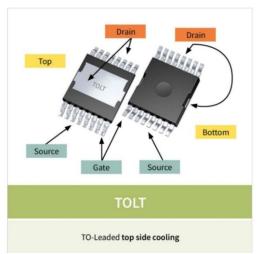


Development of Toll package

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- The TO-Leaded Topside cooling (TOLT) package expands the high-performance package line of the Power MOSFET family.
- The TOLT package is indeed a significant advancement in power MOSFET technology. It retains the
 high current and low profile benefits of the TOLL package, but with the added advantage of top-side
 cooling. This feature allows for superior thermal performance, which is crucial in high-power
 applications.
- This innovative packaged is a key feature that enables high current ratings greater than 300 A for high power density designs.



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