

## Typical Operating Characteristics

( $T_A = +25^\circ\text{C}$ , unless otherwise noted.)

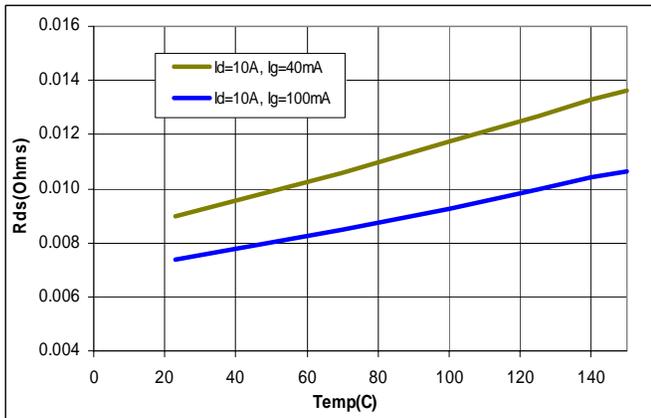


Figure 7 –  $R_{DS(on)}$  vs Temperature (C)

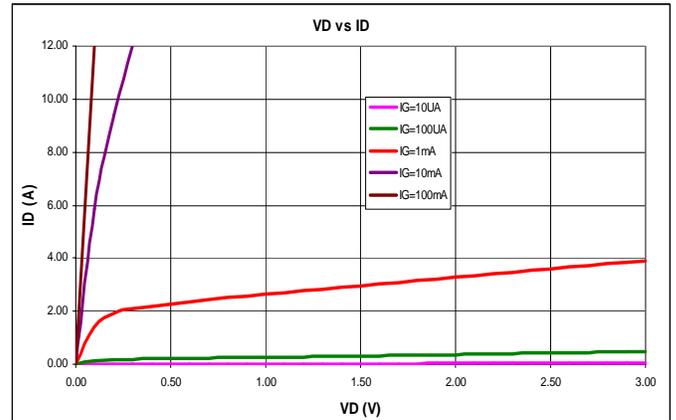


Figure 8 – On-Region Characteristics

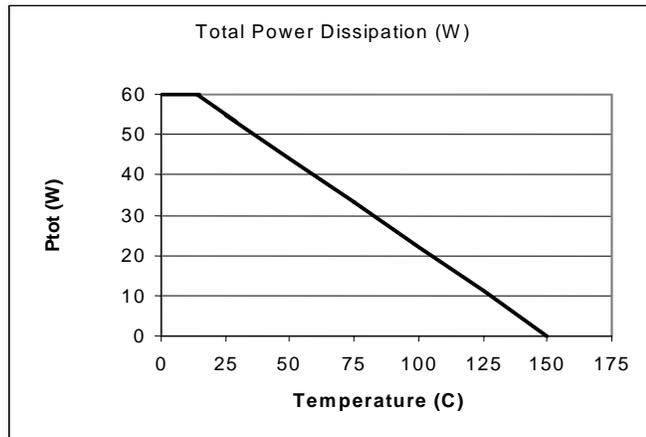


Figure 9 – Total Power Dissipation

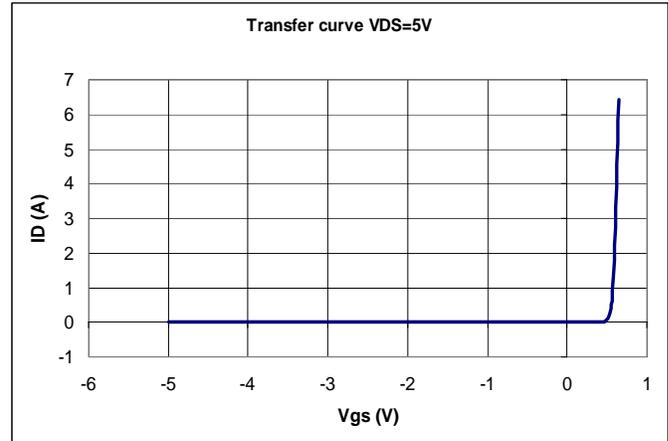


Figure 10 – Transfer Curve  $I_d$  vs  $V_{gs}$

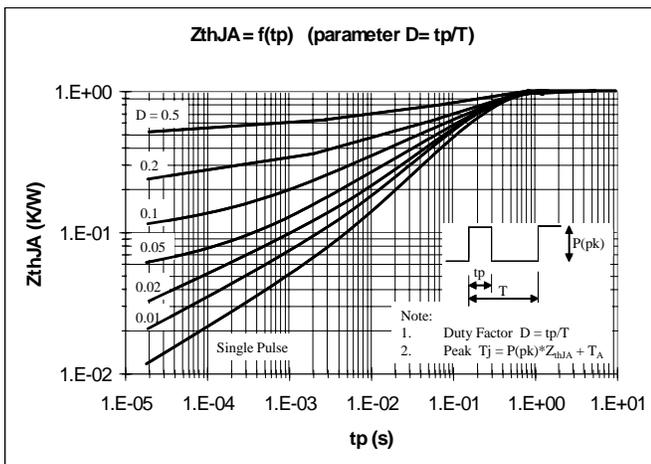


Figure 11 – Normalized Thermal Response

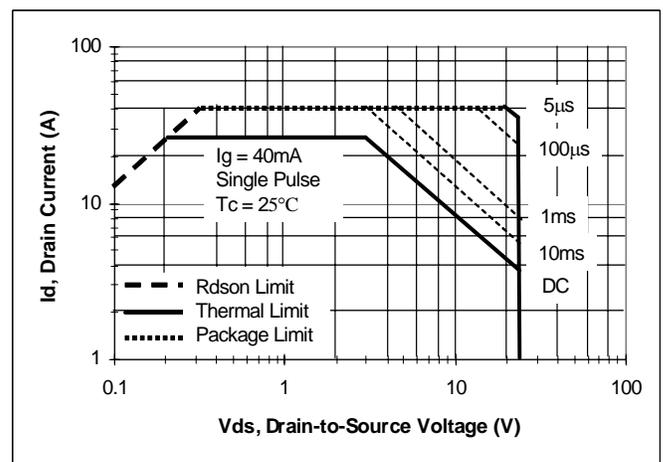


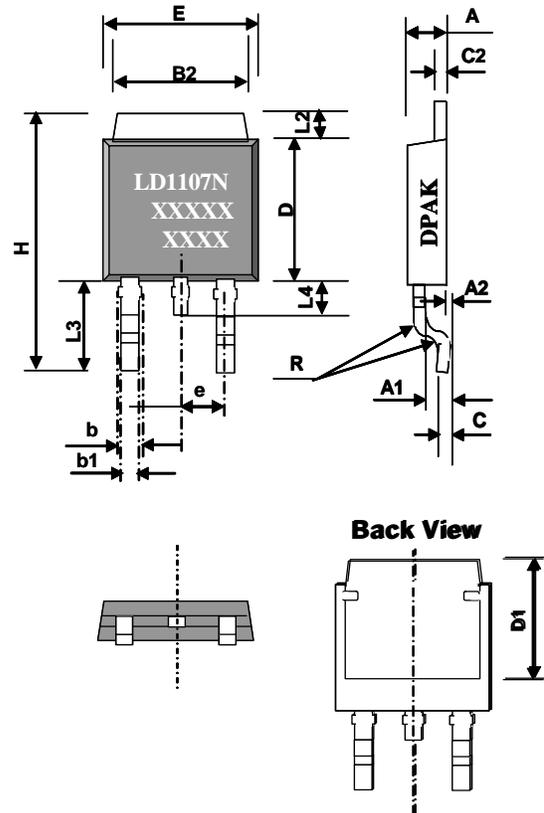
Figure 12 – Safe Operating Area

## Ordering Information

Product Number	PN Marking	Package
LD1107N	LD1107N	TO252 (DPAK)

## Package and Marking Information

DIMENSIONS						
DIM.	mm.			inch		
	TYP.	MIN.	MAX.	TYP.	MIN.	MAX.
A	2.19	2.40		0.086	0.094	
A1	0.89	1.14		0.035	0.045	
A2	0.03	0.13		0.001	0.005	
b	0.76	1.14		0.030	0.045	
b1	0.55	0.90		0.022	0.035	
B2	5.20	5.46		0.205	0.215	
C	0.45	0.60		0.017	0.023	
C2	0.45	0.58		0.017	0.023	
D	5.97	6.22		0.235	0.245	
D1	5.30			0.208		
E	6.35	6.73		0.250	0.265	
e	2.28			0.090		
H	9.35	10.42		0.368	0.410	
L2	0.88	1.27		0.035	0.050	
L3	1.86	3.57		0.073	0.140	
L4	0.64	1.02		0.025	0.040	
R	0.20			0.008		
Alternate						
D	5.40	5.60		0.213	0.220	
L2	1.25	1.75		0.049	0.069	
L3	2.60	2.80		0.102	0.110	
H	9.65	9.75		0.380	0.384	



## Life Support Policy

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- Life support devices or systems are devices or systems which (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in a significant injury of the user.
- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Datasheet Identification	Product Status	Definition
Advance Information	In definition or in Design	This datasheet contains the design specifications for product development. Specifications may change without notice.
Preliminary	Initial Production	This datasheet contains preliminary data; additional and application data will be published at a later date. Lovoltech, Inc. reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	In Production	This datasheet contains final specifications. Lovoltech reserves the right to make changes at any time without notice in order to improve the design.