

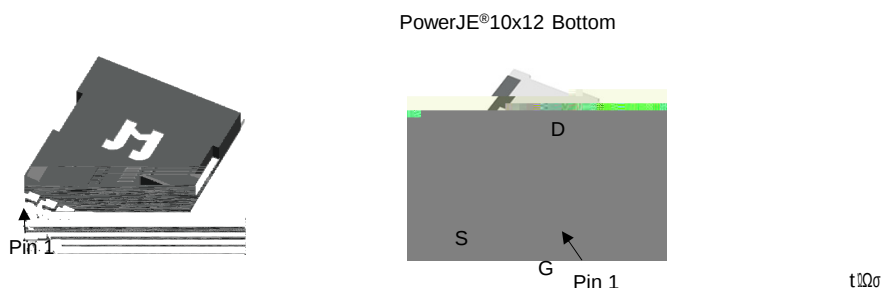
100V 1.3mΩ TOLL N-Ch Power MOSFET

Features

Product Summary

Parameter	Value	Unit
V_{DS}	100	V
$V_{GS(th)}_{Typ}$	2.8	V
I_D (@ $V_{GS} = 10V$) ⁽¹⁾	411	A
$R_{DS(ON)}_{Typ}$ (@ $V_{GS} = 10V$)	1.3	mΩ

Applications



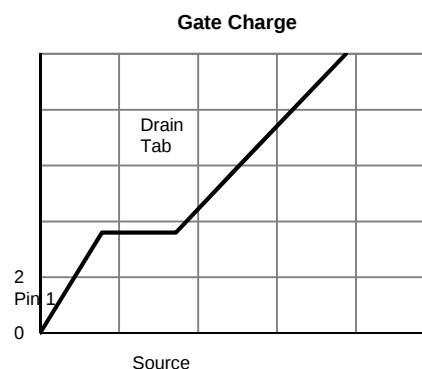
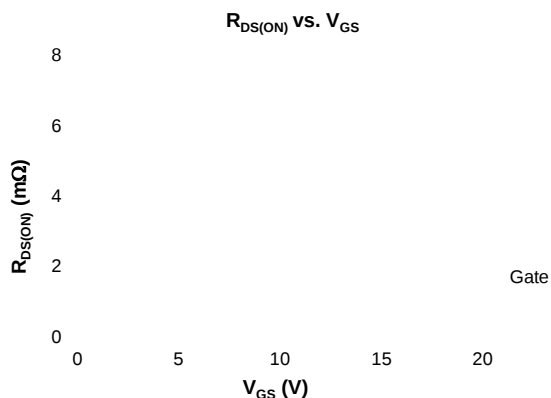
Ordering Information

Device	Package	# of Pins	Marking	MSL	T _J (°C)	Media	Quantity (pcs)
JMSH1001ATL-13	PowerJE®10x12 ⁽¹⁾	8	SH1001A	1	-55 to 175	13-inch Reel	2000

Note 1: PowerJE® is a registered trademark of JieJie Micro., its package outline is compatible to that of TO-LeadLess (TOLL).

Absolute Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
	V_{DS}		V
	V_{GS}		V
Continuous Drain Current ⁽²⁾	I_D	411	A
		290	A
Pulsed Drain Current ⁽³⁾	I_{DM}	1343	A
Avalanche Current ⁽⁴⁾	I_{AS}	50	A
Avalanche Energy ⁽⁴⁾	E_{AS}	1250	mJ
	P_D	500	W
		250	W
	T_J, T_{STG}		°C



Dark blue bar

Red bar

Gray bar

Gray bar

Gray bar

[illegible]

Typical Electrical & Thermal Characteristics

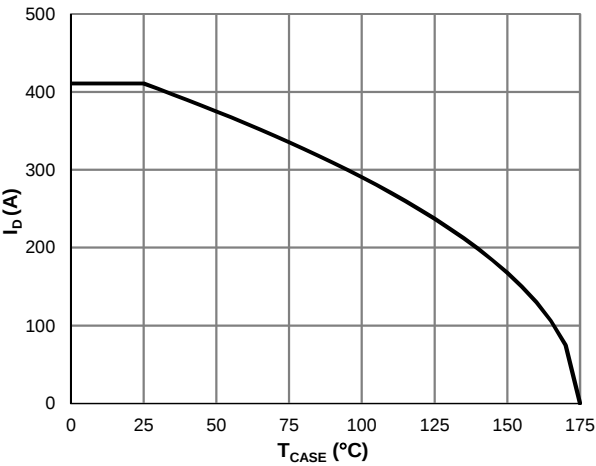


Figure 7: Current De-rating

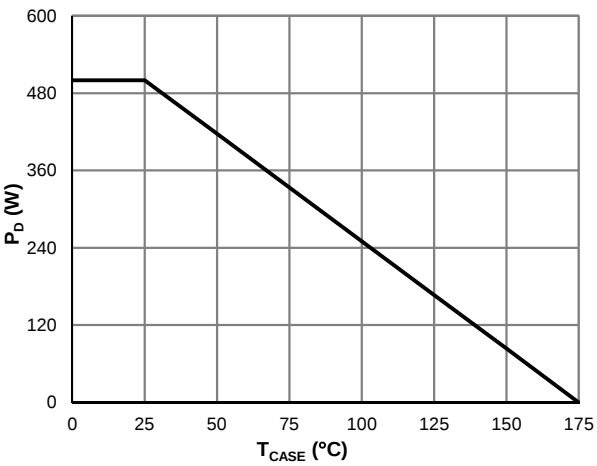
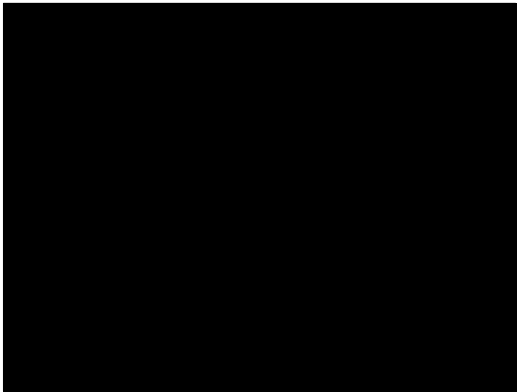
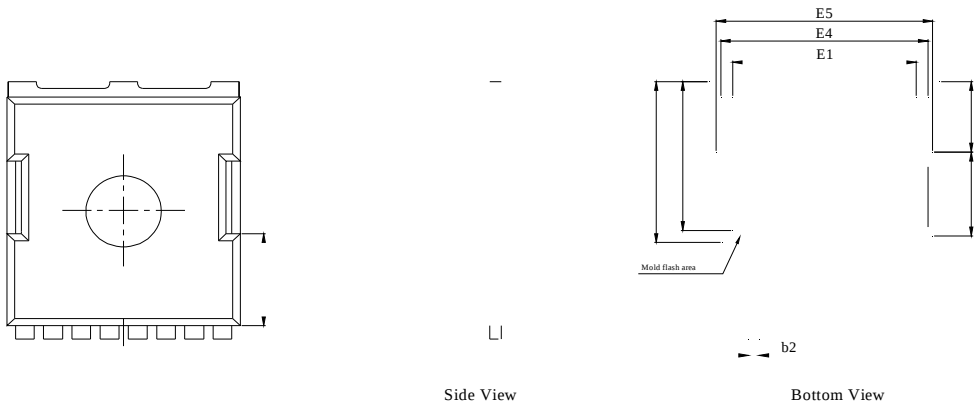


Figure 8: Power De-rating



PowerJE® 10x12 Package Information

Package Outlines



- NOTES:
- 1. Dimension and tolerance per ASME Y14.5M, 1994.
 - 2. All dimensions in millimeter.
 - 3. Dimensions include burrs or flash. Moldflash burrs does not exceed 0.150mm.

Front View

DIM.	MILLIMETER					
	MIN.	NOM.	MAX.			
A	2.20	2.30	2.40			
b	0.70	0.80	0.90			
b1	9.70	9.80	9.90			
b2	0.42	0.46	0.50			
c	0.40	0.50	0.60			
D	10.28	10.38	10.58			
D2		3.30				
E	9.70	9.90	10.10			
E1		7.80				
E4		8.80				
E5		9.20				
e		1.20 (BSC)	11.48	11.68	11.88	
H1			6.55	6.75	6.85	
H2				7.30		
H3				3.20		
H4				3.80		
K1				4.18		
L			1.70	1.90	2.10	
L1				0.70		
L2				0.60		
L4			1.00	1.15	1.30	

Recommended Soldering Footprint

