

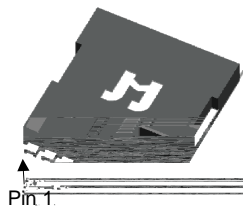
100V 1.3mΩ TOLL N-Ch Power MOSFET

Features

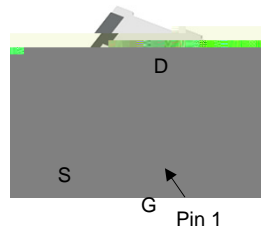
Product Summary

Parameter	Value	Unit
$V_{DS}$	100	V
$V_{GS(th\_Typ)}$	2.8	V
$I_D$ (@ $V_{GS} = 10V$ ) <sup>(1)</sup>	411	A
$R_{DS(ON\_Typ)}$ (@ $V_{GS} = 10V$ )	1.3	mΩ

Applications



PowerJE®10x12 Bottom



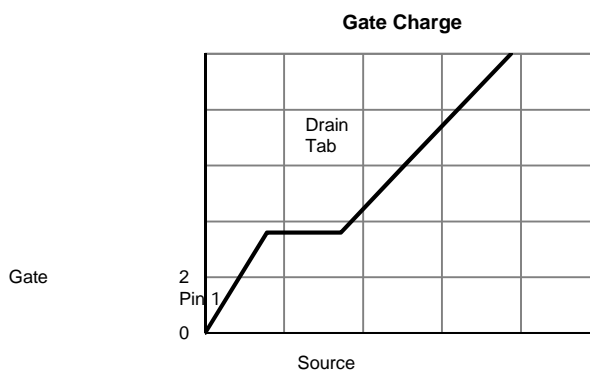
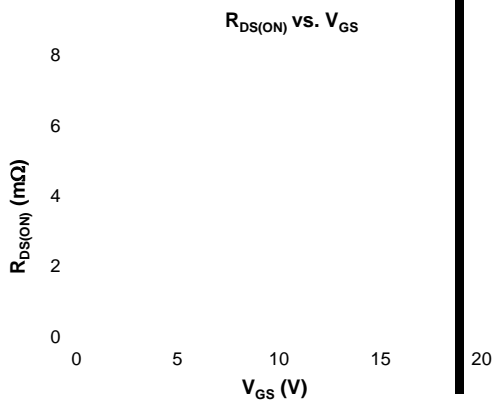
Ordering Information

Device	Package	# of Pins	Marking	MSL	T <sub>J</sub> (°C)	Media	Quantity (pcs)
JMSH1001ATL-13	PowerJE®10x12 <sup>(1)</sup>	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<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
	$V_{DS}$		V
	$V_{GS}$		V
Continuous Drain Current <sup>(2)</sup>	$I_D$	T <sub>C</sub> = 25°C	411
		T <sub>C</sub> = 100°C	290
Pulsed Drain Current <sup>(3)</sup>	$I_{DM}$	1343	A
Avalanche Current <sup>(4)</sup>	$I_{AS}$	50	A
Avalanche Energy <sup>(4)</sup>	$E_{AS}$	1250	mJ
	$P_D$	T <sub>C</sub> = 25°C	500
		T <sub>C</sub> = 100°C	250
	$T_{D, T_{STG}}$		°C







Typical Electrical & Thermal Characteristics

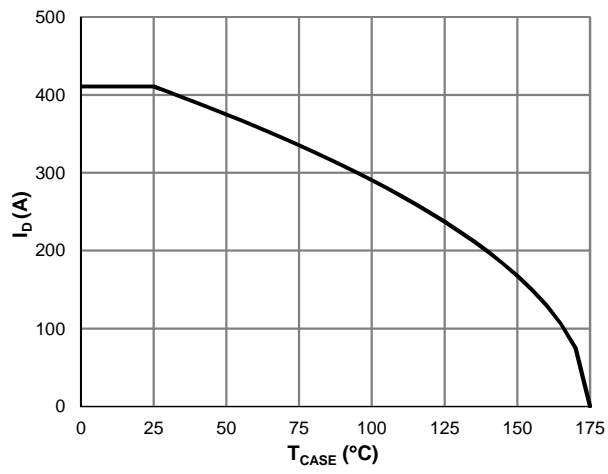


Figure 7: Current De-rating

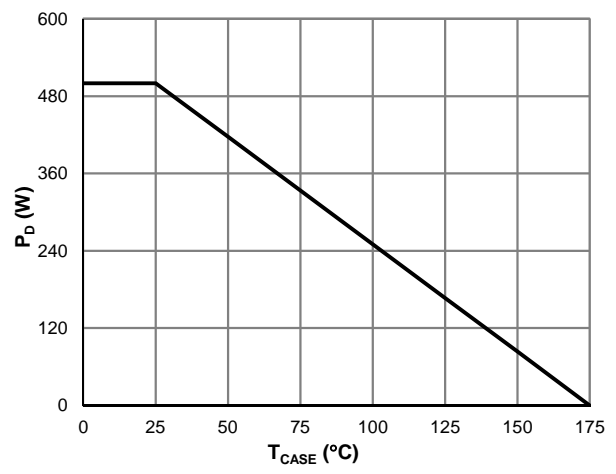
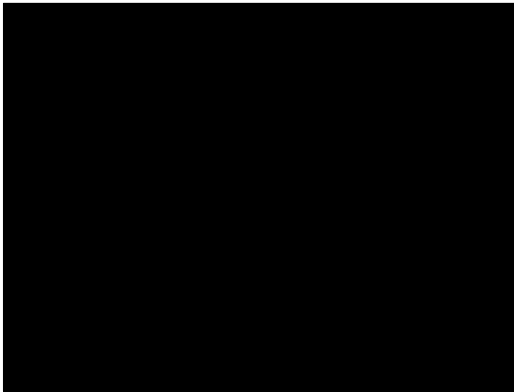
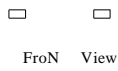
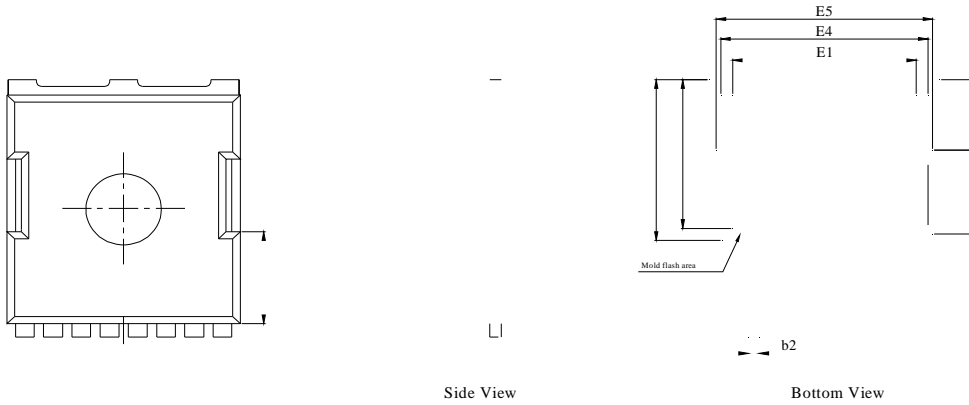


Figure 8: Power De-rating



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.

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 Solder Pad Footprint

