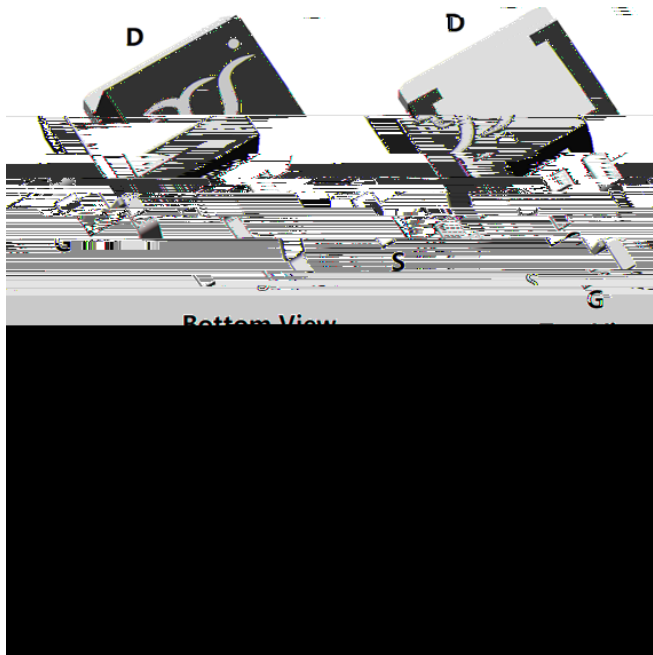




## N-Channel Enhancement Mode Field Effect Transistor



### Product Summary

$V_{DS}$	100V
$I_D$	130A
$R_{DS(ON)}$ ( at $V_{GS}=10V$ )	5m
$R_{DS(ON)}$ ( at $V_{GS}=4.5V$ )	6m
100% EAS Tested	
100% VDS Tested	

### General Description

Split gate trench MOSFET technology  
 Excellent package for heat dissipation  
 High density cell design for low  $R_{DS(ON)}$   
 Moisture Sensitivity Level 1  
 Epoxy Meets UL 94 V-0 Flammability Rating  
 Halogen Free

### Applications

Power switching application	T
Uninterruptible power supply	
DC-DC	IDrain Current

	$T_A=25$	$I_D$	16	A
	$T_A=100$		10	
	$T_C=25$		130	
	$T_C=100$		82	
Pulsed Drain Current <sup>A</sup>		$I_{DM}$	520	A
Avalanche energy <sup>B</sup>		EAS	360	mJ
Total Power Dissipation <sup>C</sup>	$T_A=25$	$P_D$	2.7	W
	$T_A=100$		1.1	
	$T_C=25$		190	
	$T_C=100$		77	
Junction and Storage Temperature Range		$T_J, T_{STG}$	-55 +150	

### Thermal resistance

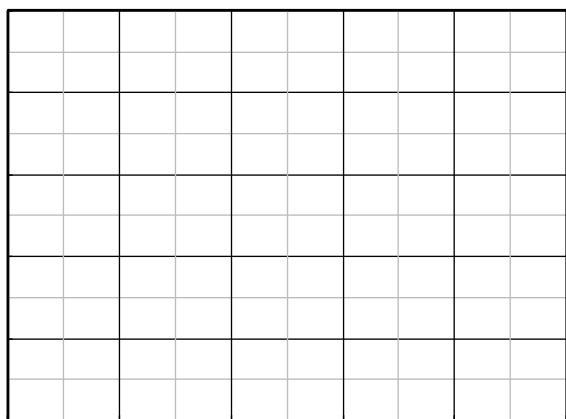
Parameter	Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient <sup>D</sup>	$R_{JA}$			

				INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
YJB130G10A	F2	YJB130G10A	800	/	8000	13" reel



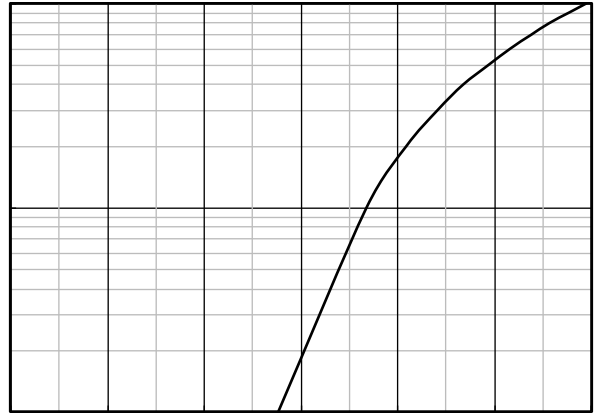
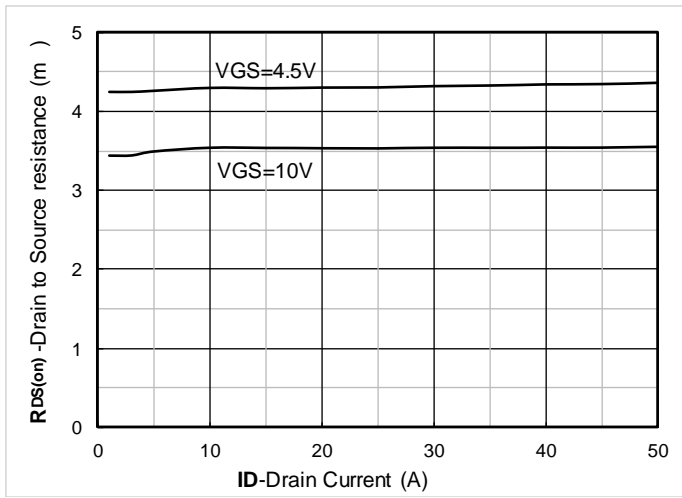


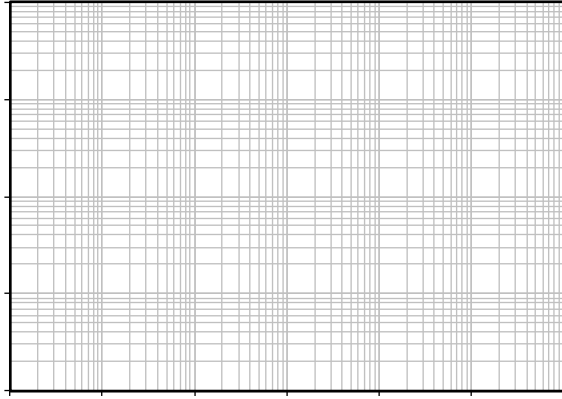
Typical Electrical and Thermal Characteristics Diagrams





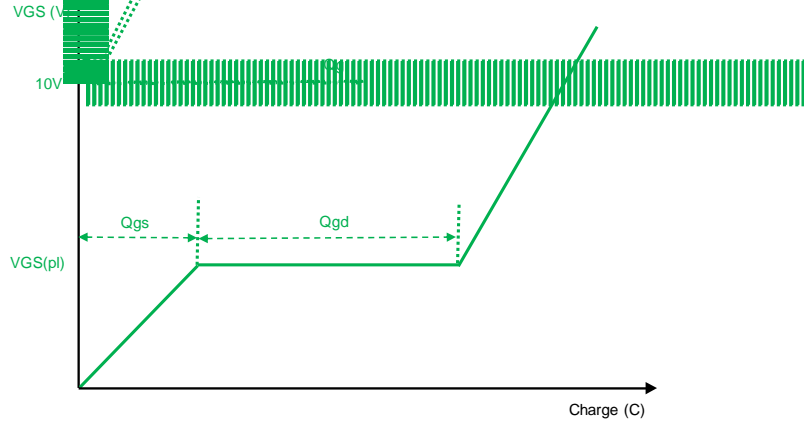
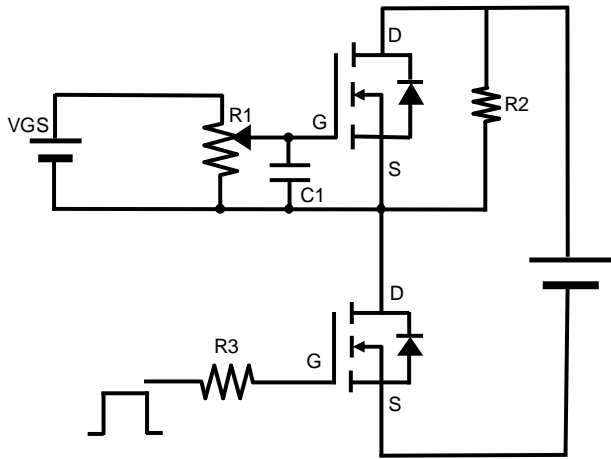
# YJB130G10A







# YJB130G0A





# YJB130G10A

## TO-263-HY Package information

TOP VIEW

SIDE VIEW

BOTTOM VIEW

SYMBOL	DIMENSIONS					
	INCHES			Millimeter		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A1	0.000	---	0.010	0.000	---	0.250
A2	0.174	0.180	0.186	4.430	4.58	4.730
b	0.028	0.032	0.036	0.720		0.920
b2	0.046	0.050	0.054	1.180		1.380
c	0.013	0.015	0.018	0.330		0.450
c2	0.048	0.050	0.053	1.220		1.340
D1						
D2	0.303	0.315	0.327	7.700		8.300
E	0.571	0.591	0.610	14.500		15.500
E1	0.337	0.341	0.348	8.550		8.850
E2						
e	0.200BSC			5.080BSC		
L	0.070		0.110	1.790		2.790
L1						
L2	0.030		0.070	0.770		1.770
L3	0.197REF			5		
	0°		8°	0°		8°

### NOTE:

- 1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS.
- 2.TOLERANCE 0.1mm UNLESS OTHERWISE SPECIFIED.
- 3.THE PAD LAYOUT IS FOR REFERENCE PURPOSES ONLY.



## YJB130G10A

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