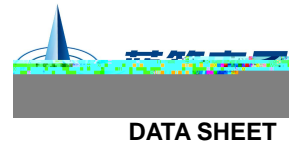


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/ Descriptions

TO-263 塑封封装 N 沟道场效应管。

N-CHANNEL MOSFET in a TO-263 Plastic Package.

/ Features

低电阻,开关速度快,无卤产品。

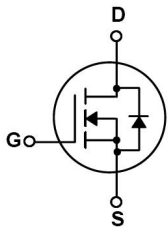
Ultra Low On-Resistance,fast switching,HF Product.

/ Applications

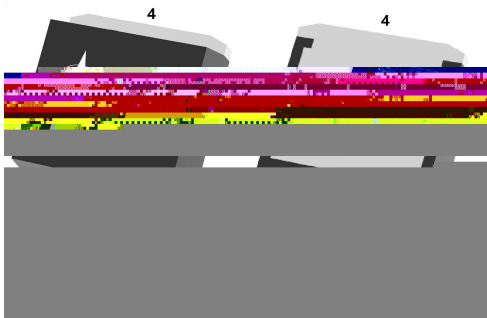
高频开关和同步整流、BMS、电机。

High frequency switching and synchronous rectification,BMS,Motor.

/ Equivalent Circuit



/ Pinning



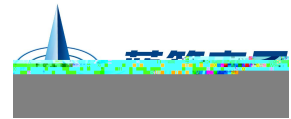
PIN1 : G

PIN 2、 4 : D

PIN 3 : S

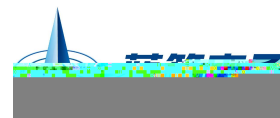
/ Marking

见印章说明。 See Marking Instructions.



Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	100	V
Drain Current	$I_D(T_C=25^\circ C)$	180	A
Pulsed Drain Current	I_{DM}	385	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy(L=0.5mH)	E_{AS}	563	mJ
Avalanche Current	I_{AS}	37.5	A
Total Power Dissipation	$P_D(T_C=25^\circ C)$	237	W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^\circ C$
Thermal Resistance-Junction to Ambient	$t \leq 10s$	R_{JA}	17.7
	Steady-State		70.7
Thermal Resistance-Junction to Case	Steady-State	R_{JC}	0.53

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	100	112		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=100V$ $V_{GS}=0V$			1	μA
Gate-Body Leakage Current Forward	I_{GSS}	$V_{GS}=\pm 20V$ $V_{DS}=0V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\mu A$	2	2.9	4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=10V$ $I_D=20A$		3.5	4.0	m



/ Electrical Characteristics(Ta=25)

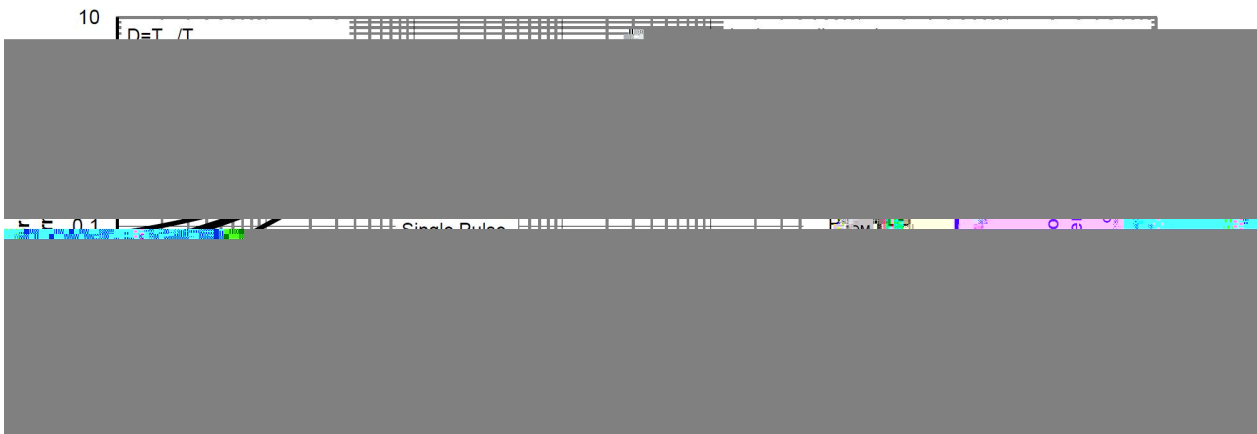
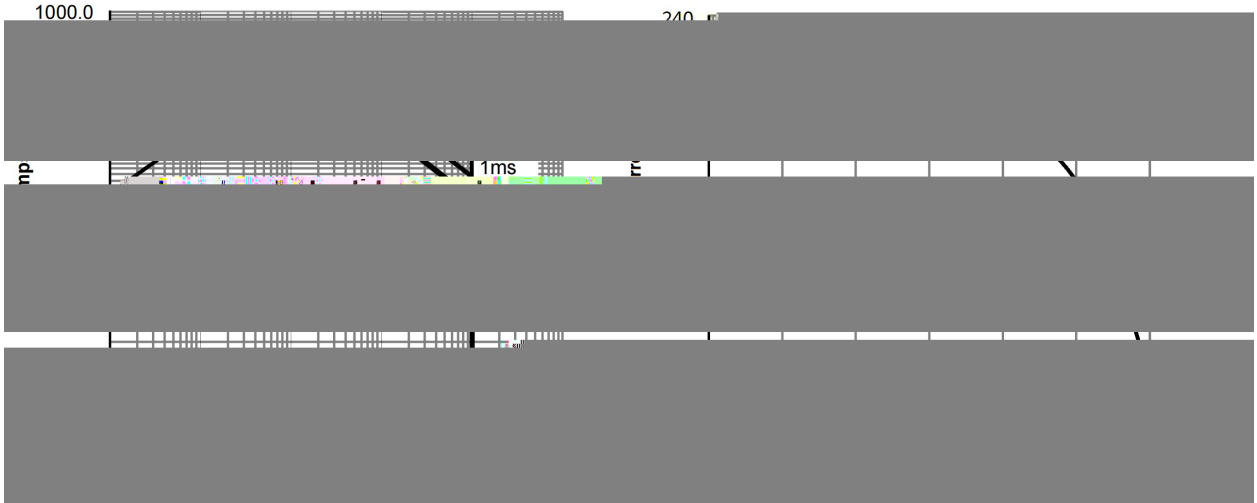
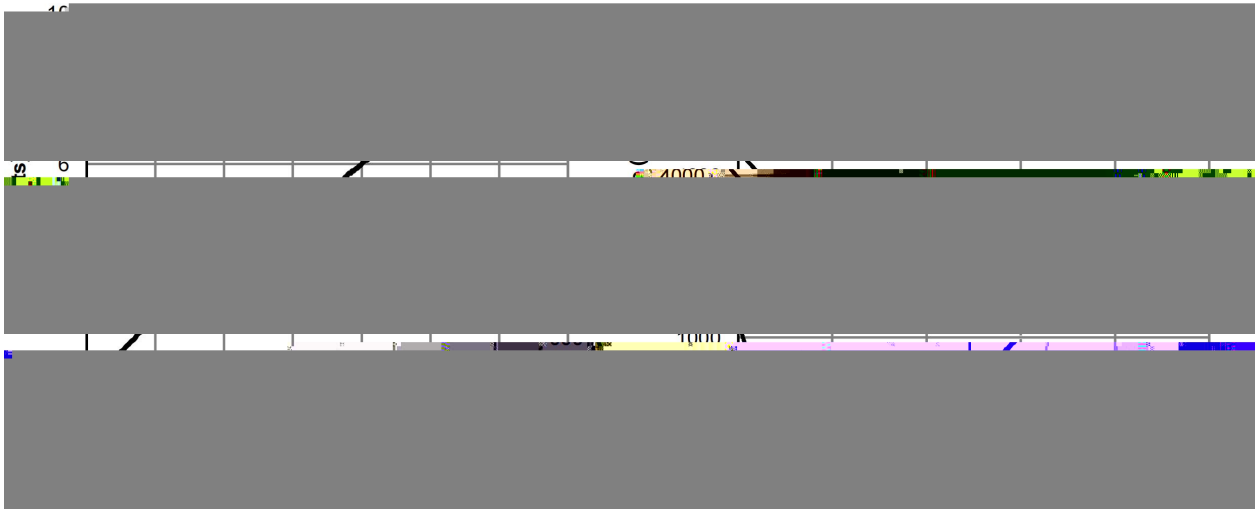
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3$		25		ns
Turn-On Rise Time	t_r			17		
Turn-Off Delay Time	$t_{d(off)}$			53		
Turn-Off Fall Time	t_f			24		

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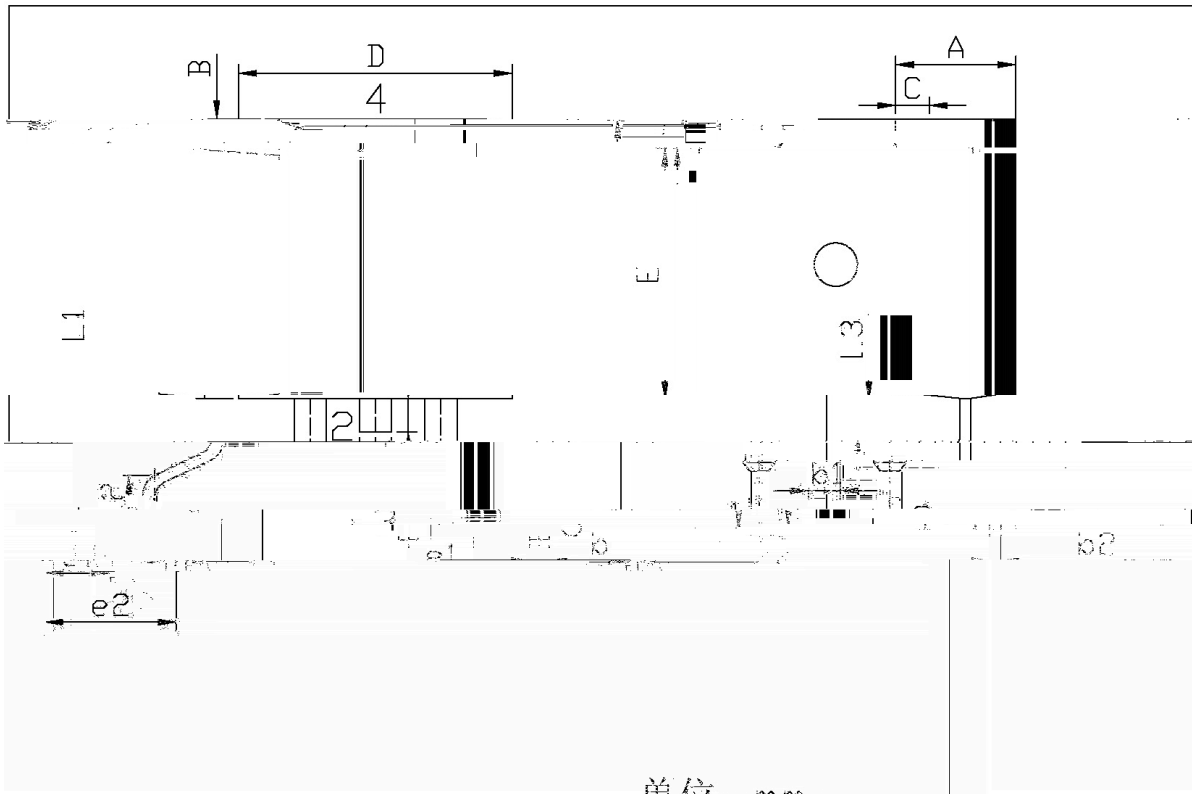
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DATA SHEET

/ Electrical Characteristic Curve

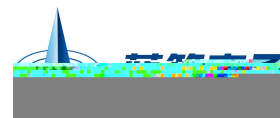


/ Package Dimensions

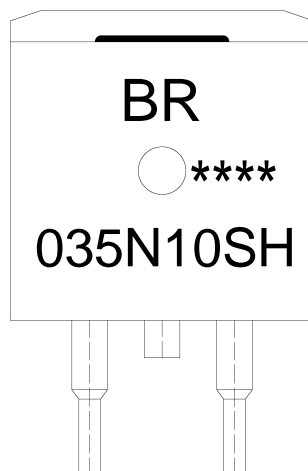


Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
e1	2.34	2.74	B1	1.00	1.40
e2	4.88	5.28	B2	0.70	0.90
L1	15.00	16.00	b1	1.15	1.35
L2	2.24	2.84	b2	0.40	0.60
L3	1.20	1.60	C	1.20	1.40
n	9	10			

TL-253



/ Marking Instructions



BR

035N10SH

Note:

BR: Company Code

035N10SH: Product Type

****: Lot No. Code, code change with Lot No

