TO-263 ṂṂ Ḫ N ᵴ ʃ ѿ Ẓ ᶘ

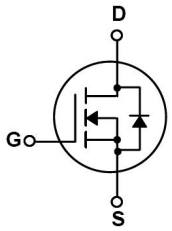
N-CHANNEL MOSFET in a TO-263 Plastic Package.

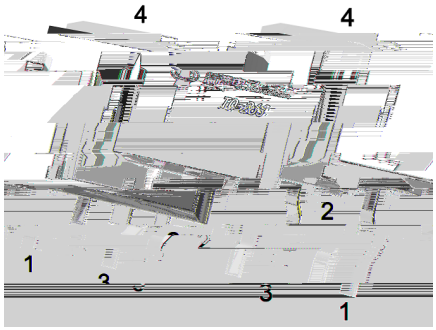
Ḥ ɔ ڳ/Ầ ʜ ₐ ẙ ồ ɪ ᵑ ᵀ DHF0T434 ‰ ᵓ ɔ ᶦ ˎ ớ ɻ ∂ ɪ ṇ ꜰ ᵝ

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High frequency switching and synchronous rectification,BMS,Motor, Meet the stringent requirements of automotive applications.





PIN1 χ G PIN 2 4 χ D PIN 3 χ S

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See Marking Instructions.

v ‴Ω Parameter	ϒ N Symbol	‴Ω Ö Rating	D Ч Unit
Drain-Source Voltage	V_{DSS}	100	V
Drain Current	I_D(Tc=25)	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(Tc=25)	237	W
Junction and Storage Temperature Range	T_J,T_{STG}	-55 to 150	
Thermal Resistance-Junction to Ambient t ≤ 10s	$R_{\theta JA}$	17.7	

v ̈Q Parameter	ϒ N Symbol	╨ :↑ ϯ Test Conditions	ѡ ṇ Ө Min	Ɛ ʒ Ө Typ	ѡ ᶻ Ө Max	ᴅ Ꮒ Unit
Turn-On Delay Time	$t_{d(on)}$			25		
Turn-On Rise Time	t_r	V_{GS}=10V V_{DS}=50V R_L=2.5Ω R_{GEN}=3Ω		17		ns
Turn-Off Delay Time	$t_{d(of}$					

/ Electrical Characteristic Curve

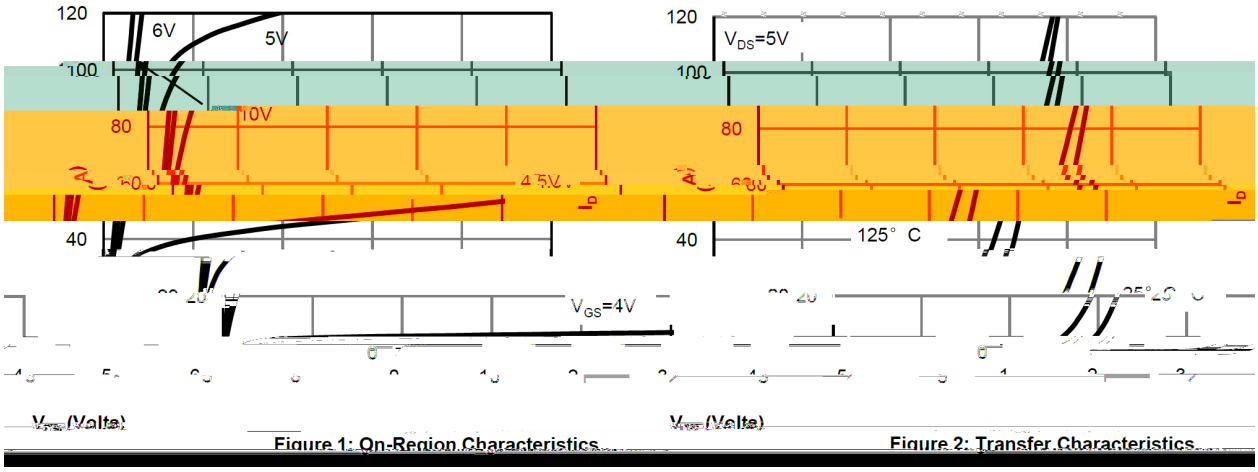


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics

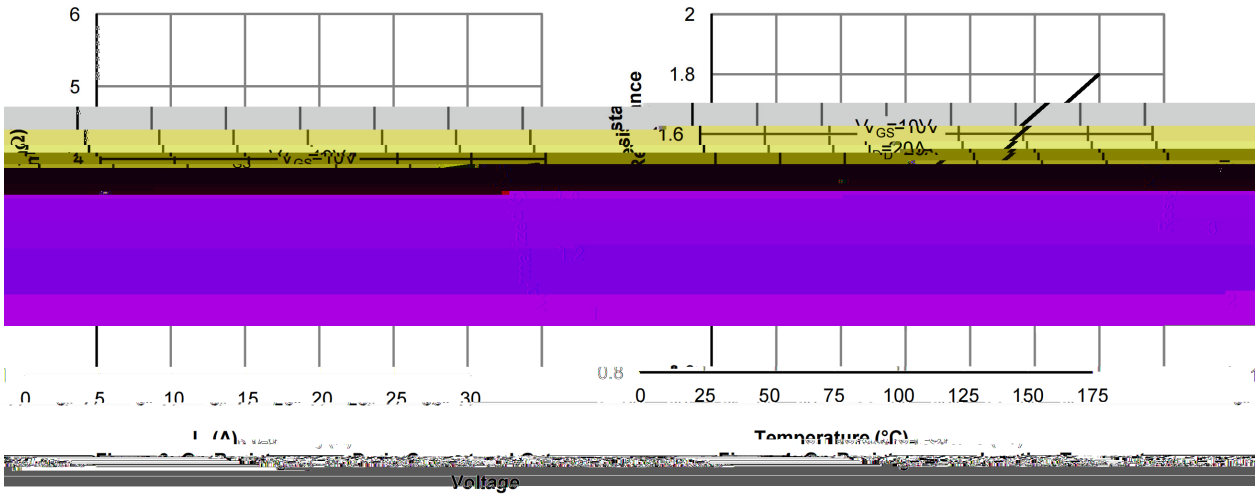


Figure 3: On-Resistance Variation with Drain Current and Gate Voltage

Figure 4: On-Resistance Variation with Temperature

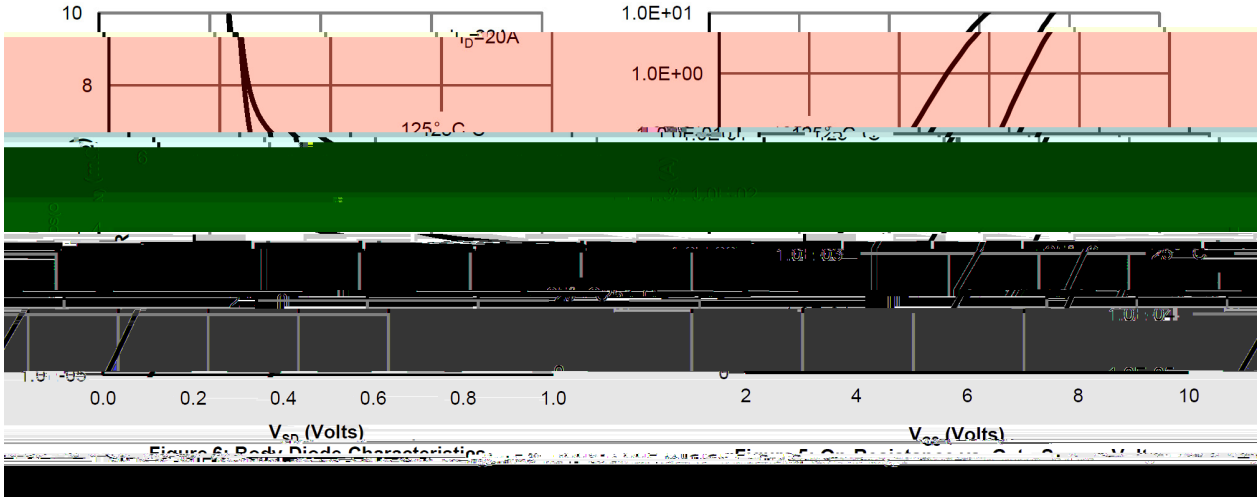
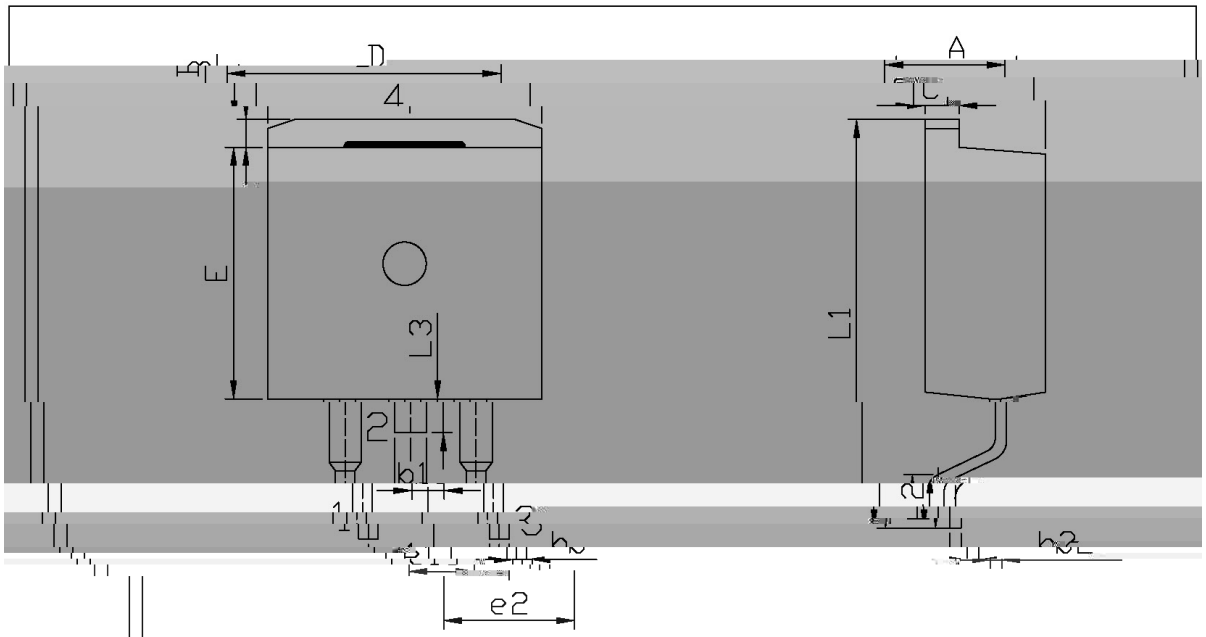


Figure 6: Body Diode Characteristics

Figure 5: On-Resistance Variation with Gate-to-Source Voltage

BRCS035N10SHBDQ

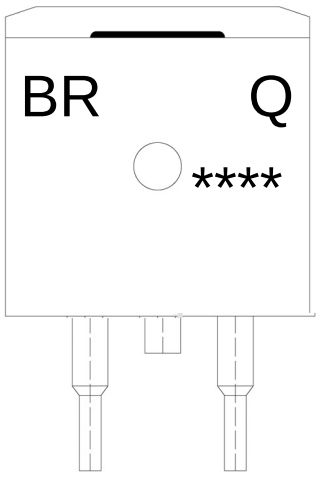
/ Package Dimensions



单位：mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
A	4.30	4.70	E	9.00	9.40
B	1.00	1.40	e1	2.34	2.74

/ Marking Instructions



◌̇ ◌̋ χ	
EU χ	ꟻ ꝛ И Ꮆ
Q χ	ꟻ ∩ ᓚ ᾐ ꜰ β ‰ ᶹ
368Q43VK χ	ꟻ ȝ ᴺ Ꮆ
---- χ	ꟻ ꞉ ꜰ ᾒ ᴺ Ꮆ ꞉ ₺ ꞉ ꜰ ᾒ ᴺ Ψ ᖴ

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
035N10SH:	Product Type Code
****:	Lot No. Code, code change with Lot No

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 200 ł ı `H ژ 60 Ḱ 120sec;

2 Š Ө □ ỷ 255 ° 5 ł ı `H ژ 'Y ٨ ₦ 5 ° 0.5sec;

3 ì ˙ ٢ ˛ ɔ ﻩ ỷ ₦ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:150~200 ł , Time:60~120sec.

2.Peak Temp.:255 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

605 ° 5 ₱