/ Descriptions

TO-263 ṂṂÞ N ǯ ʃ ѽ Ƶ ㄱ
N-CHANNEL MOSFET in a TO-263 Plastic Package.

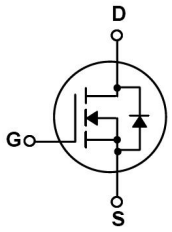
/ Features

V_{DS}=60V I_D=182A
$R_{DS(on)}$@10V◊3.0mq(Type.2.8mq)
$R_{DS(on)}$@6V◊5.0mq(Type.3.5mq)
ㄱ ᵀ DHF0T434 ‰´ ㅊ ˡ ˎ ό ㄴ ∂ ı ή ᵮ ᵝ Qualified to AEC-Q101 Standards for High Reliability, HF Product.

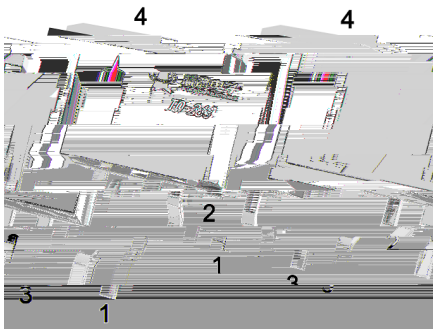
/ Applications

ㅊ ļ Ầ ʜ ⊐ ª ℓ ᷉Ǫ ㅣ EPV ɔ ı ◗ ’ ∩ ᷊ Ƶ ɾ ▨Ⱶ ㄴ ∂
High frequency switching and synchronous rectification,BMS,Motor, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ G PIN 2 4 χ D PIN 3 χ S

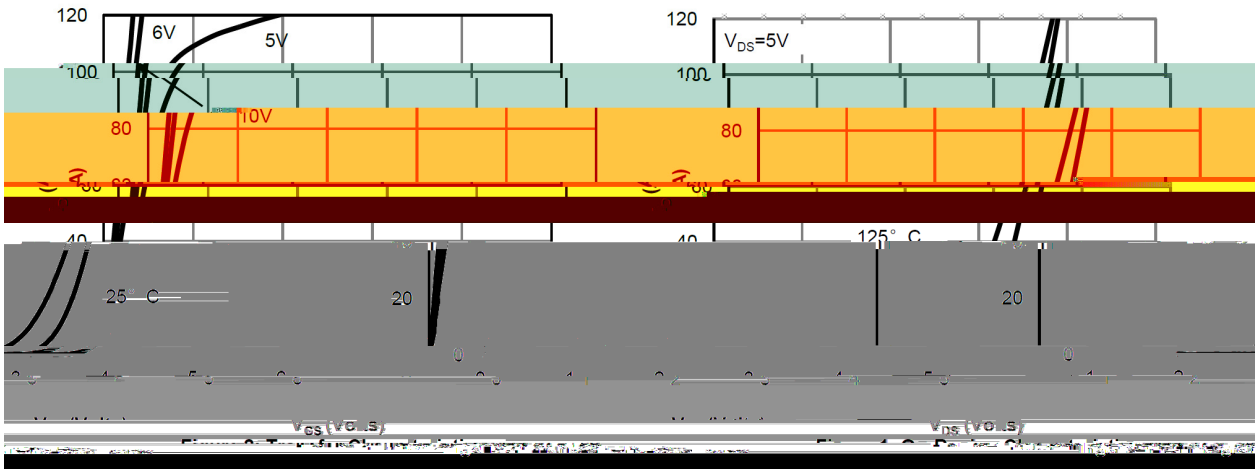
/ Marking

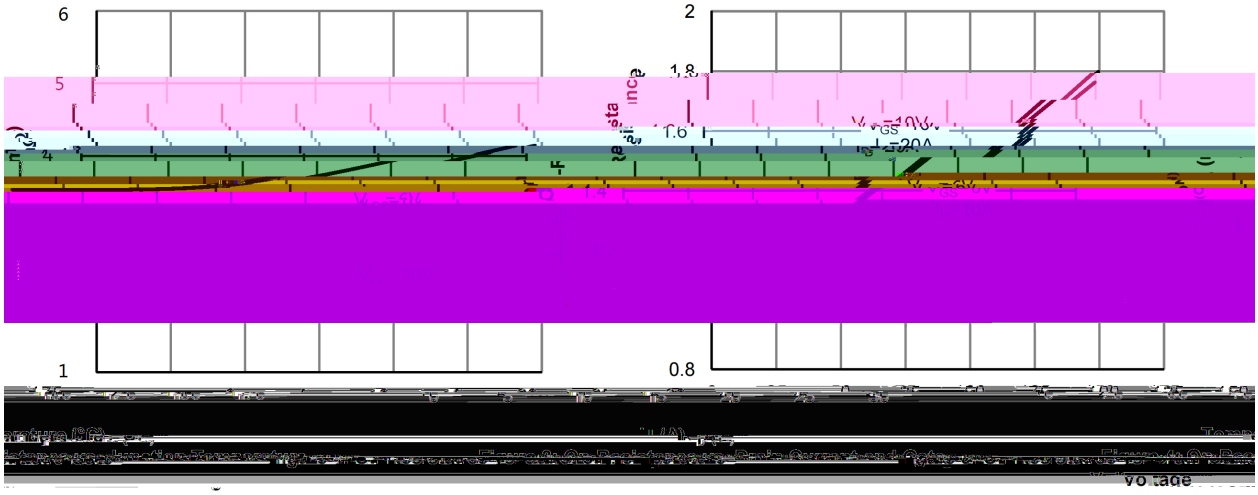
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See Marking Instructions.

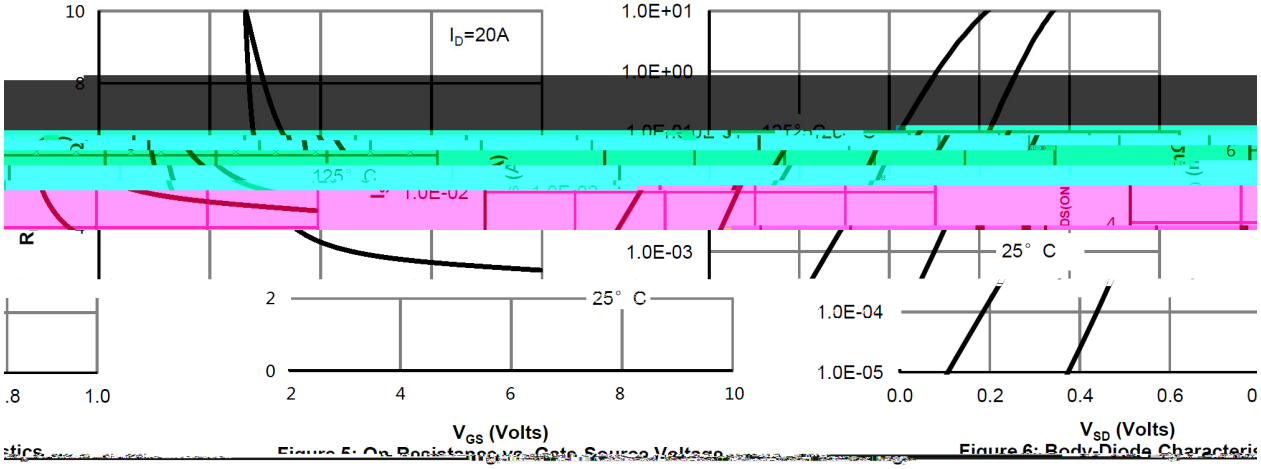
v ¨Q Parameter	¹ N Symbol	¨Q Ö Rating	D Ð Unit
Drain-Source Voltage	V_{DSS}	60	V
Drain Current	I_D(Tc=25)	182	A
Pulsed Drain Current	I_{DM}	530	A
Gate-Source Voltage	V_{GS}	± 20	V

v ̈Ọ Parameter	ϟ ᴺ Symbol	╨ ⁝ˀ ϯ Test Conditions	ѡ ṇ Ө Min	Ɛ ʒ Ө Typ	ѡ ᶻ Ө Max	ᴅ Ꮋ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=10V V_{DS}=30V R_L=1.5ϙ R_{GEN}=3ϙ		15.7		ns
Turn-On Rise Time	t_r			16.4		

/ Electrical Characteristic Curve







/ Electrical Characteristic Curve

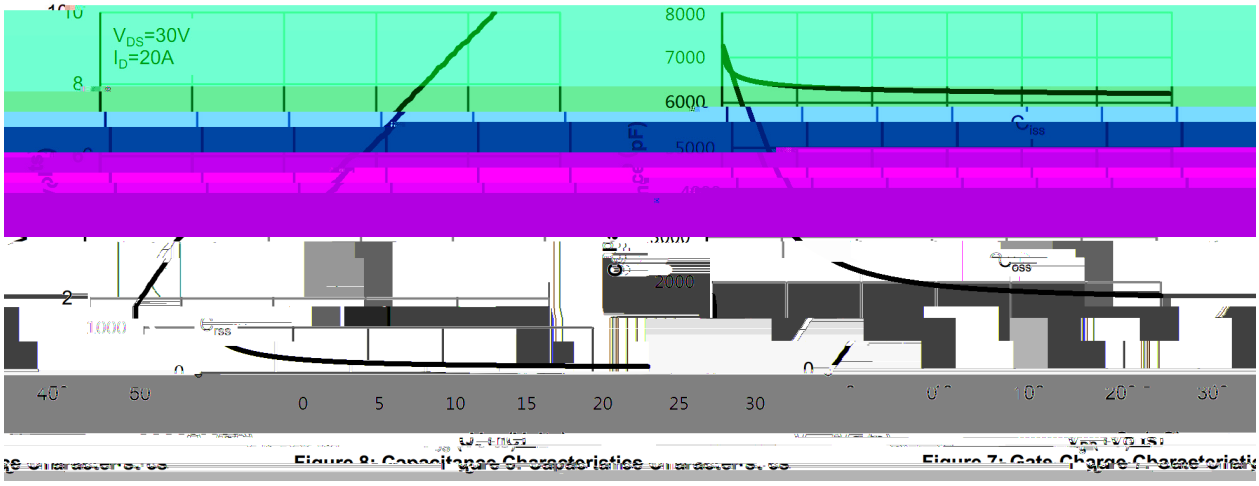
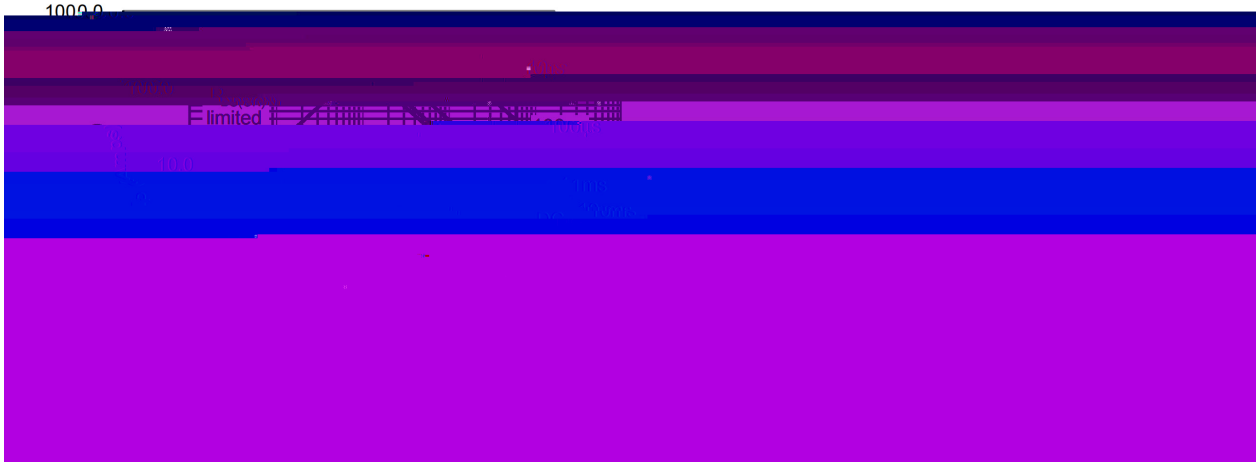
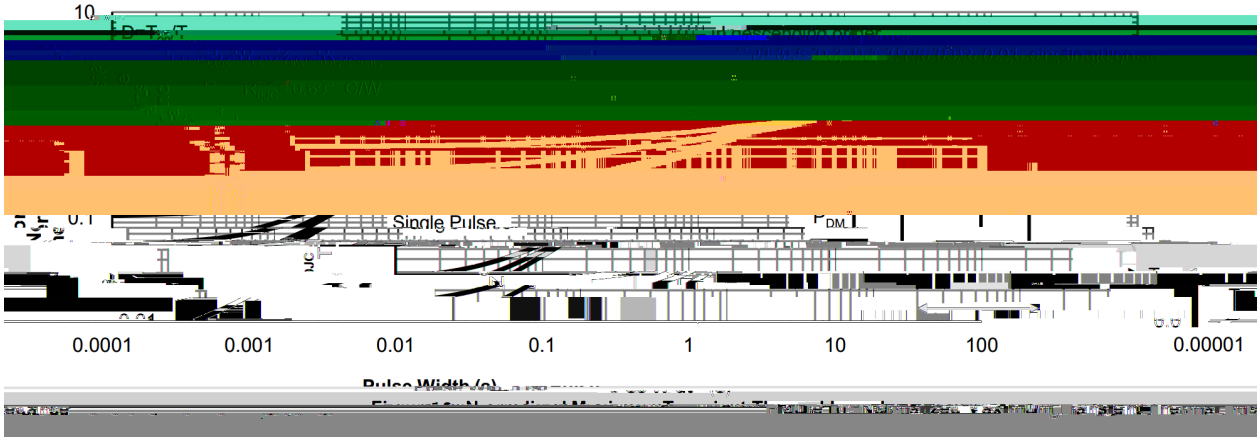


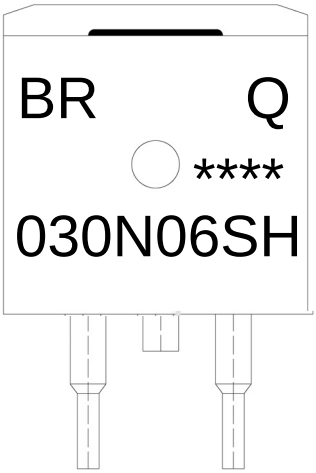
Figure 8: Capacitance Characteristics

Figure 7: Gate Charge Characteristics



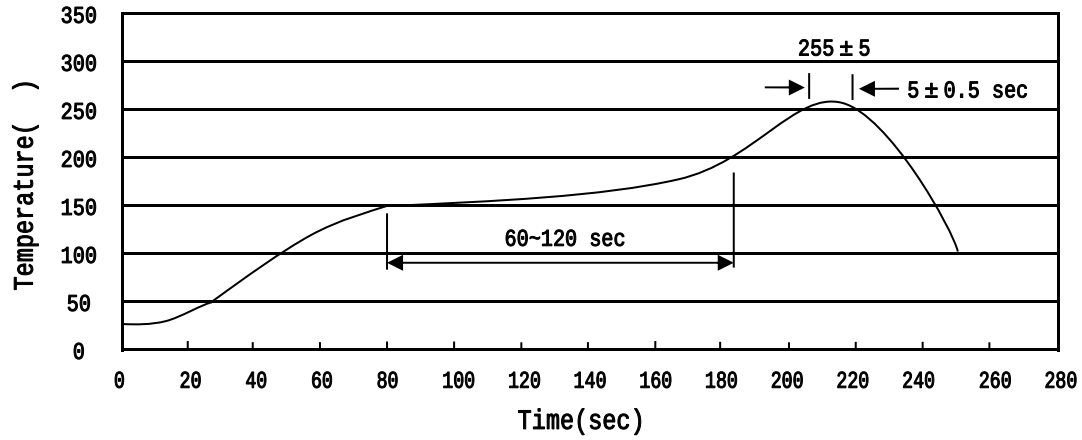


/ Marking Instructions



◡ ˝ χ	
EU χ	ㄻ ㄋ ㄐ ㄇ
Q χ	ㄻ ∩ ㄘ ㄖ ｆ β ‰ ㄟ
363Q39VK χ	ㄻ ㄋ ㄣ ㄇ
---- χ	ㄻ ㄧ ｆ ㄖ ㄣ ㄇ ㄧ ㄓ ㄧ ｆ ㄖ ㄣ Ψ ㄗ
Note:	
BR:	Company Code
Q:	Automobile halogen-free product Code
030N06SH:	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 ɬ ı `H ڑ 60 Ḱ 120sec;

2 Š Ë □ ỷ 255 ° 5 ɬ ı `H ڑ 'Y ㅅ ㎞ 5 ° 0.5sec;

3 ì ˙ ㅓ ˛ ↄ ๛ ỷ ㎞ 2 Ḱ 10 ɬ /sec.

Note:

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

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

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ɬ `H ڑ χ 10 ° 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

ↄ ` ㅓ Ь / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-263	800	1	800	6	4,800	13 ×24	360×360×50	380×335×366

˛ ㄱ ㅓ Ь / TUBE

Package Type	Units					Dimension		(unit mm³)
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

/ Notices