

/ Descriptions

VRS0; 𐀀𐀀 Q Sr z hu Wuhqfk P RV 𐀀 𐀀 𐀀 𐀀
Dual N-Channel Power Trench MOSFET in a SOP-8 Plastic Package.

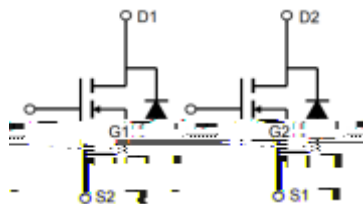
/ Features

$V_{DS}(V)=40V$ $I_D=8A$
 $R_{DS(ON)}@10V<20m\Omega(Typ. 22m\Omega)$
 $R_{DS(ON)}@4.5V<29.5m\Omega(Typ. 36m\Omega)$
𐀀 𐀀 𐀀 HF Product.

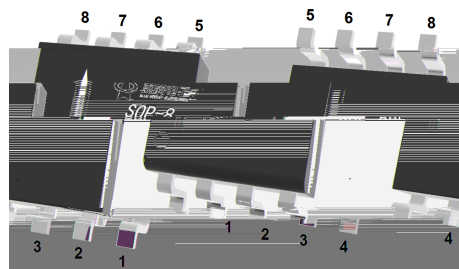
/ Applications

𐀀 - 3 𐀀 𐀀 𐀀 𐀀 𐀀 𐀀 𐀀 𐀀
Battery protection, Load Switch, Power management.

/ Equivalent Circuit



/ Pinning



PIN1 𐀀 S1 PIN 2 𐀀 G1 PIN 3 𐀀 S2 PIN 4 𐀀 G2
PIN 5 𐀀 D2 PIN 6 𐀀 D2 PIN 7 𐀀 D1 PIN 8 𐀀 D1

/ Marking

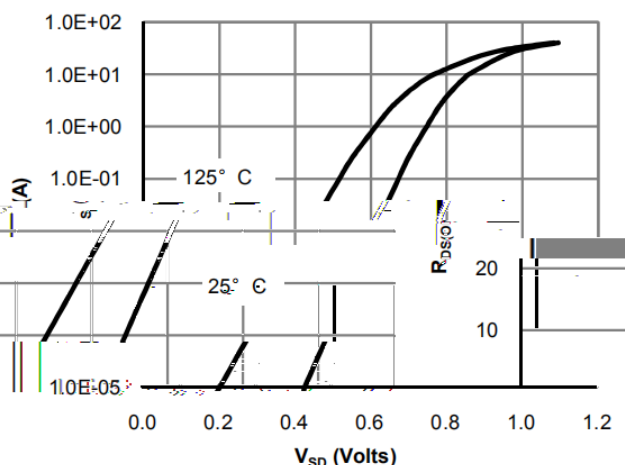
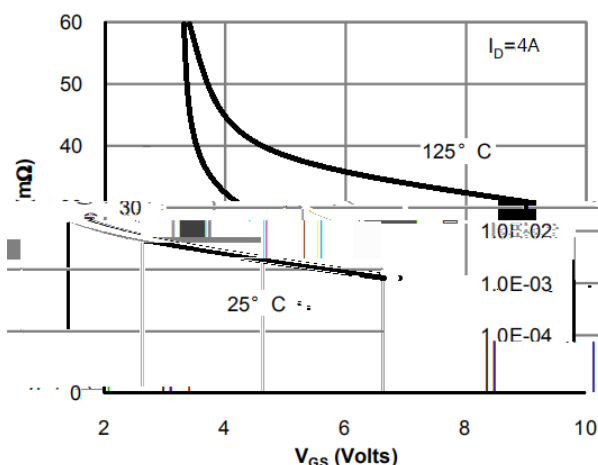
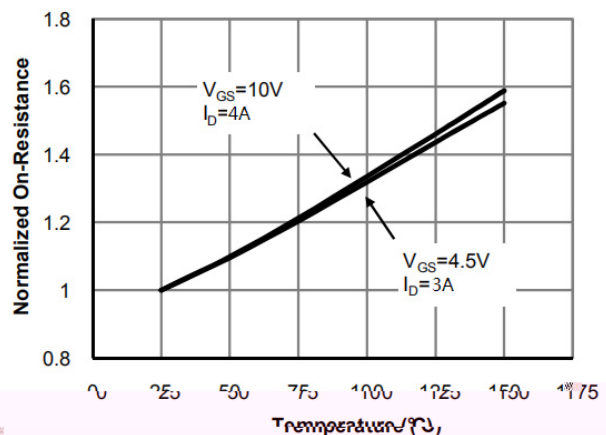
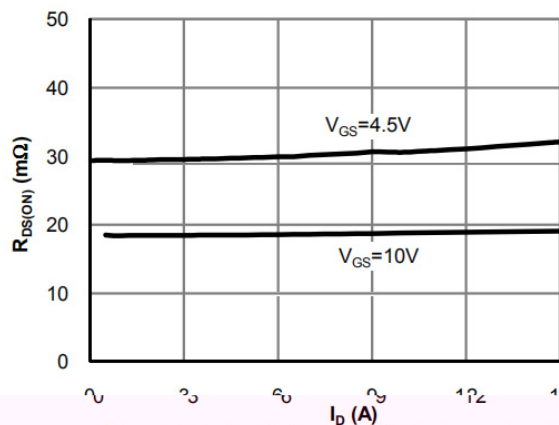
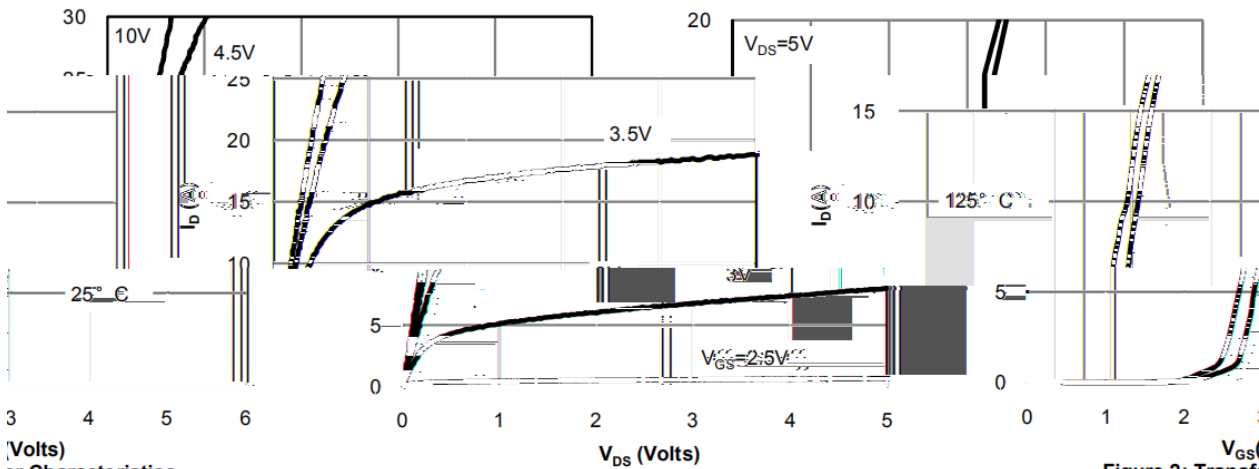
M 𐀀 𐀀

See Marking Instructions.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q _g (10V)	V _{GS} =10V V _{DS} =20V I _D =6A		15.4		nC
Total Gate Charge	Q _g (4.5V)			7.0		
Gate-Source Charge	Q _{gs}			1.4		
Gate-Drain Charge	Q _{gd}			2.9		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

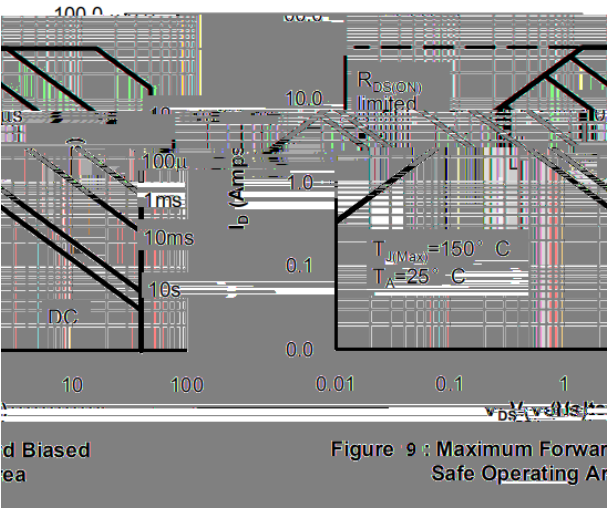
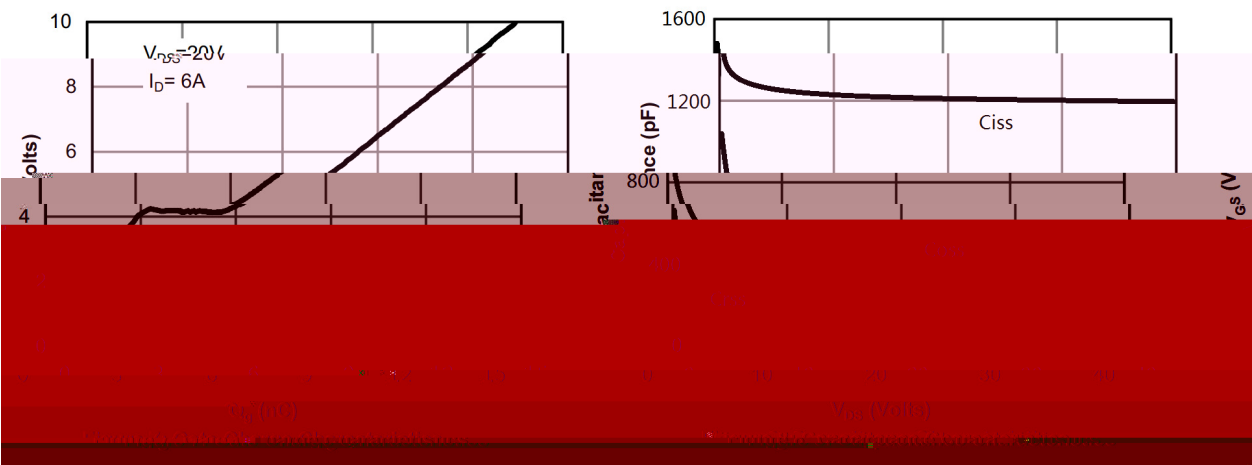


Figure 9 : Maximum Forward Safe Operating Area

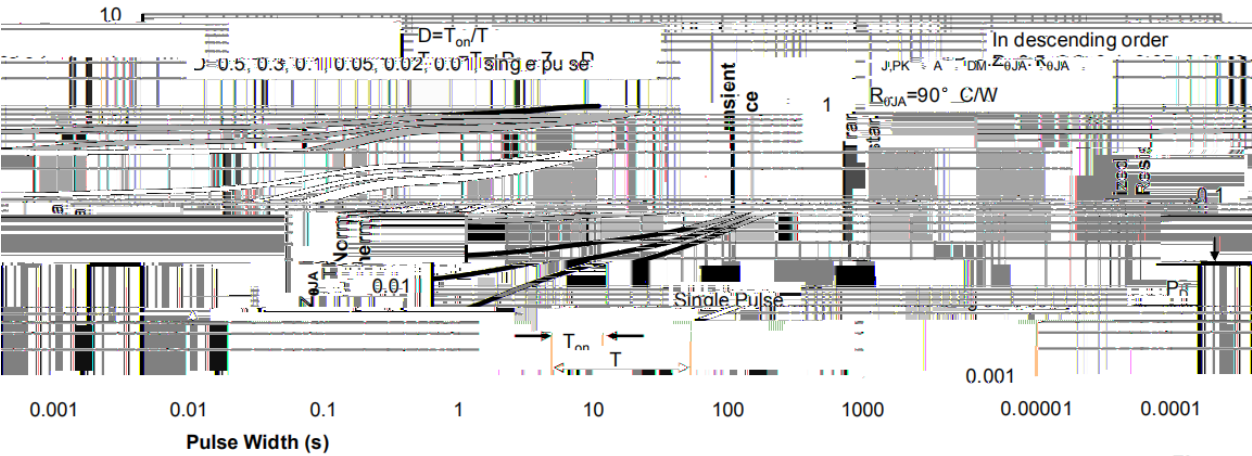


Figure 10 : Normalized Maximum Transient Thermal Impedance

Figure 10

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

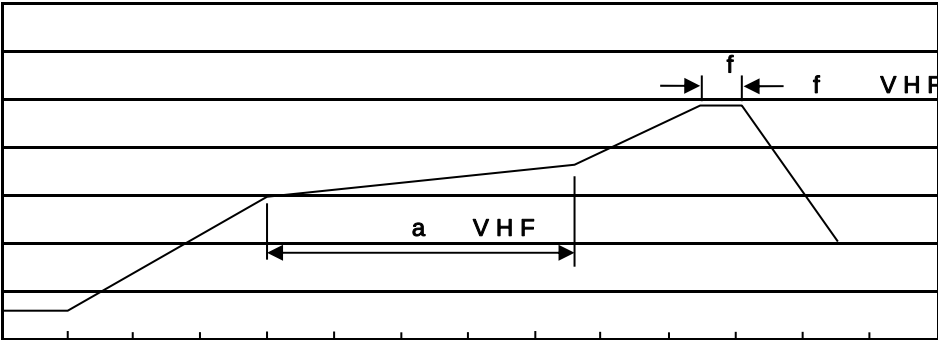
BR
200N04D

^a ¢ y
BR y , [W A
4 * y ° Z W A
y Ÿ D Z W A k Š Ÿ D Z J

Note:
BR: Company Code.
200N04D y Product Type.
***: Lot No. Code, code change with Lot No

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

a ç y

- 10• Ä ½ “† 150 ½180 - k ž • 60 ½90sec;
- 20• Q > “† 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 30•D N ò i Ò 0 ,† 2 ½10 - /sec.

Note:

- 1.Preheating:150~180 - , Time:60~90sec.
- 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
- 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 - Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOP/ESOP-8	4,000	2	8,000	6	48,000	13s ×12	360×360×50	380×335×366

„Đ y f / Notices

Î† U ^ ñ Ä ’ Î @ I c ¯ ² Á Ò ç ³ Ø o ž

All information provided in this document is subject to legal disclaimers.