

/ Descriptions

VRS0; Q Sr z hu Wuhqfk P RV

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 Ω)

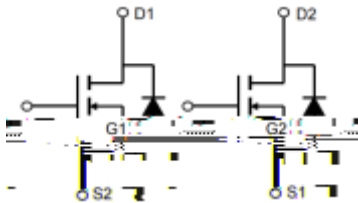
$R_{DS(ON)}@4.5V<29.5m\Omega$ (Typ. 36m Ω)

HF Product.

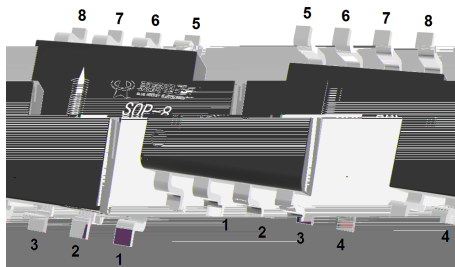
/ Applications

Battery protection, Load Switch, Power management.

/ Equivalent Circuit



/ Pinning



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

/ Marking

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

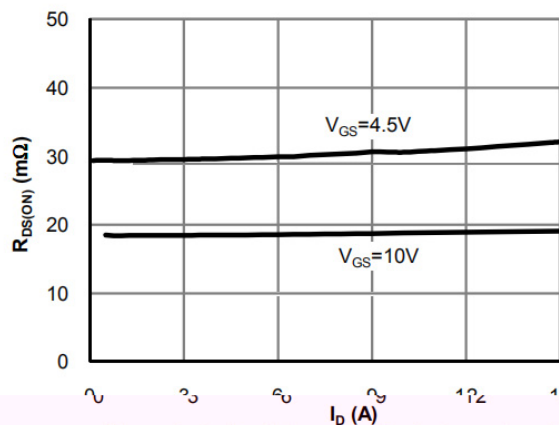
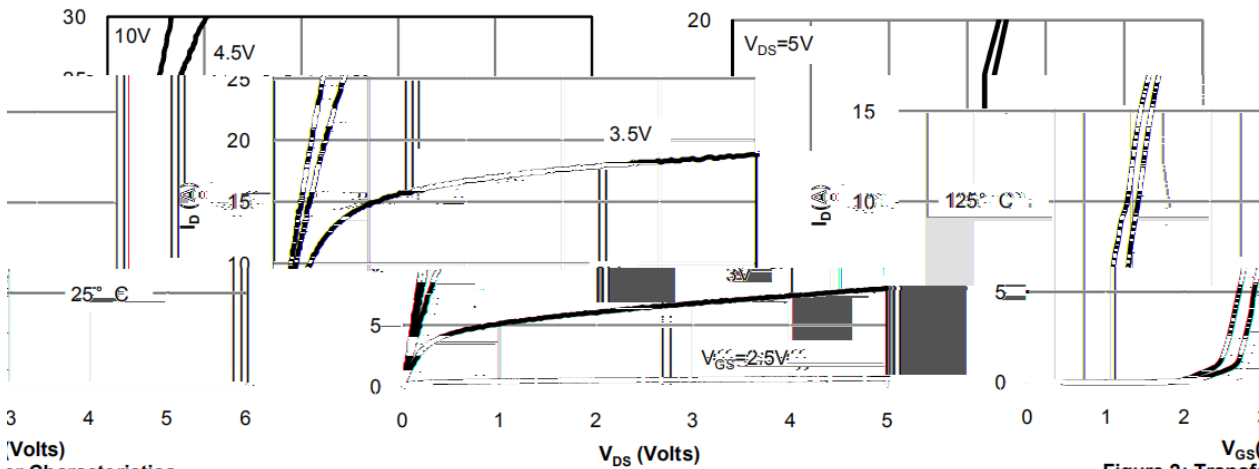


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

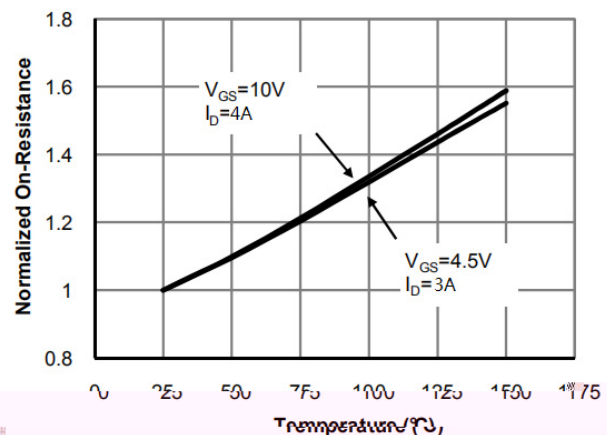


Figure 4: On-Resistance vs. Junction Temperature

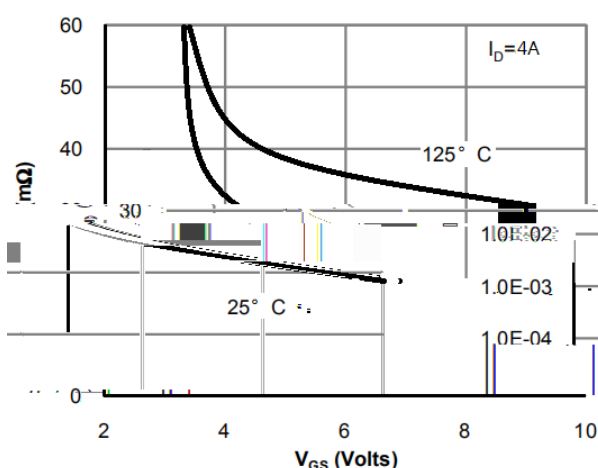


Figure 5: On-Resistance vs. Gate-Source Voltage

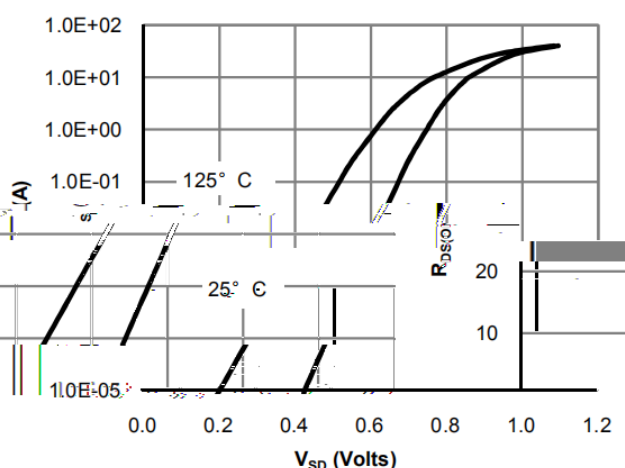


Figure 6: Body-Diode Characteristics

/ Electrical Characteristic Curve

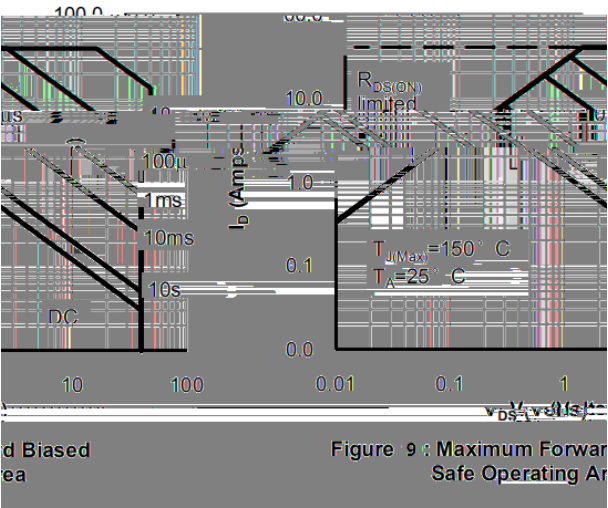
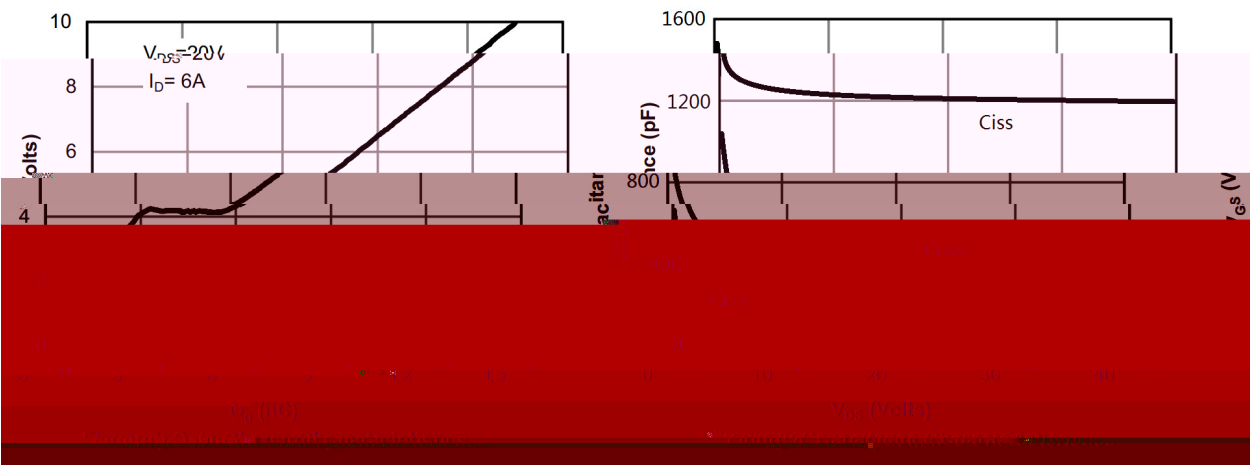


Figure 9 : Maximum Forward Safe Operating Area

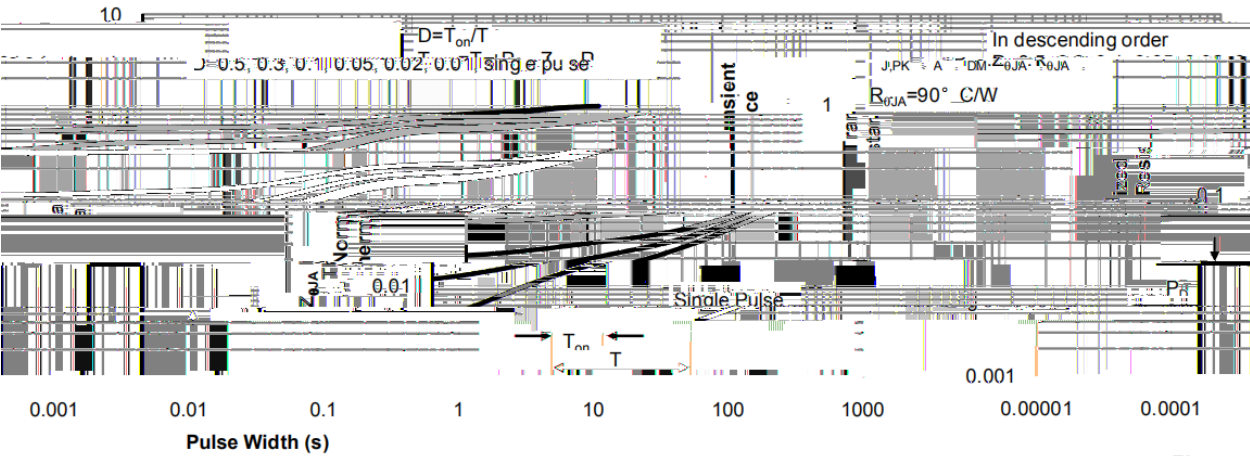


Figure 10 : Normalized Maximum Transient Thermal Impedance

Figure 10

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

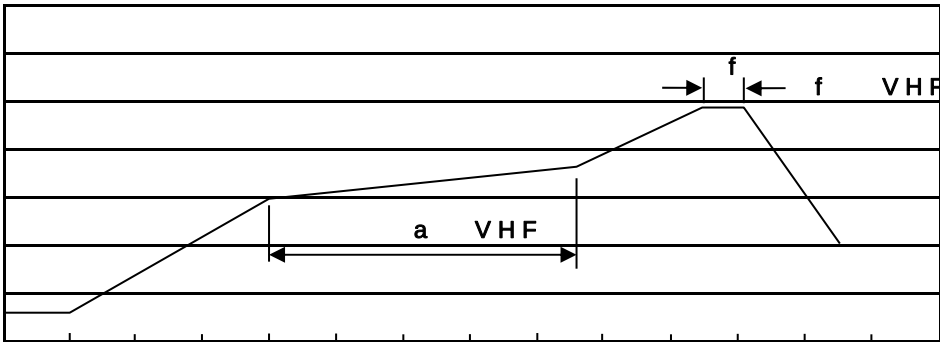
BR
200N04D

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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

ačy

- 10•Ä½“† 150½180 - kž• 60½90sec;
- 20•Q>“† 245 r5 - kž•4 Ò 5 r0.5sec;
- 30•D Nòì Ò 0 ,† 2½10 - /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 /Că 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

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