

描述

SOP-8 N MOS

Double N-CHANNEL MOSFET in a SOP-8 Plastic Package.

特征

$$V_{DS}(V)=30V \quad I_D=16.5A$$
$$R_{DS(ON)}@10V < 7m\Omega (\text{Typ. } 6.3mR)$$
$$R_{DS(ON)}@4.5V < 12m\Omega (Typ. 9.5mR)$$

Halogen-free Product.

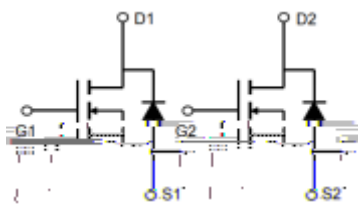
用途

MB/NB/UMPC/VGA

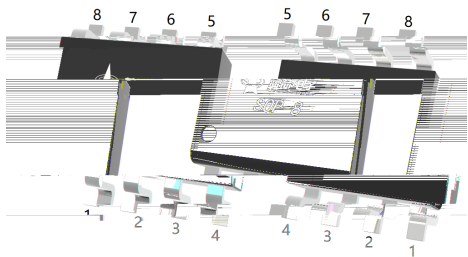
DC-DC

High Frequency Point-of-Load Synchronous Buck Converter for MB/NB/UMPC/VGA,
Networking DC-DC Power System, Load Switch.

内部等效电路



引脚排列



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

印章代码

See Marking Instructions.

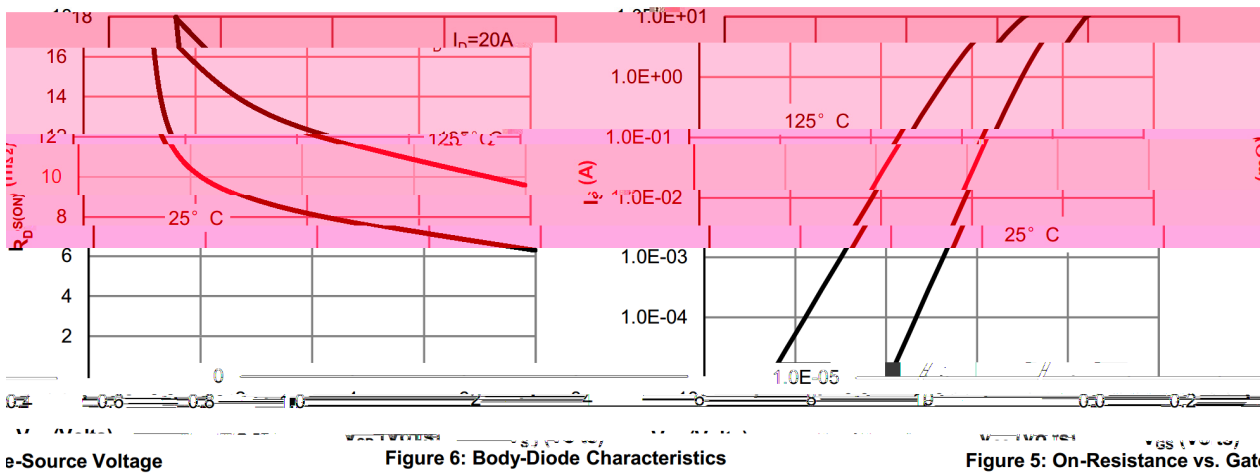
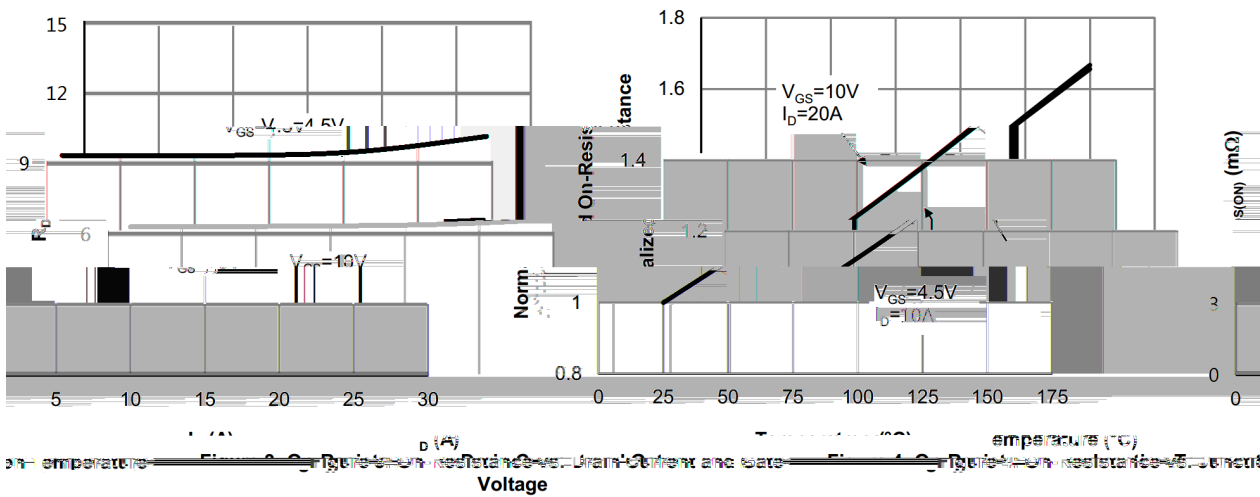
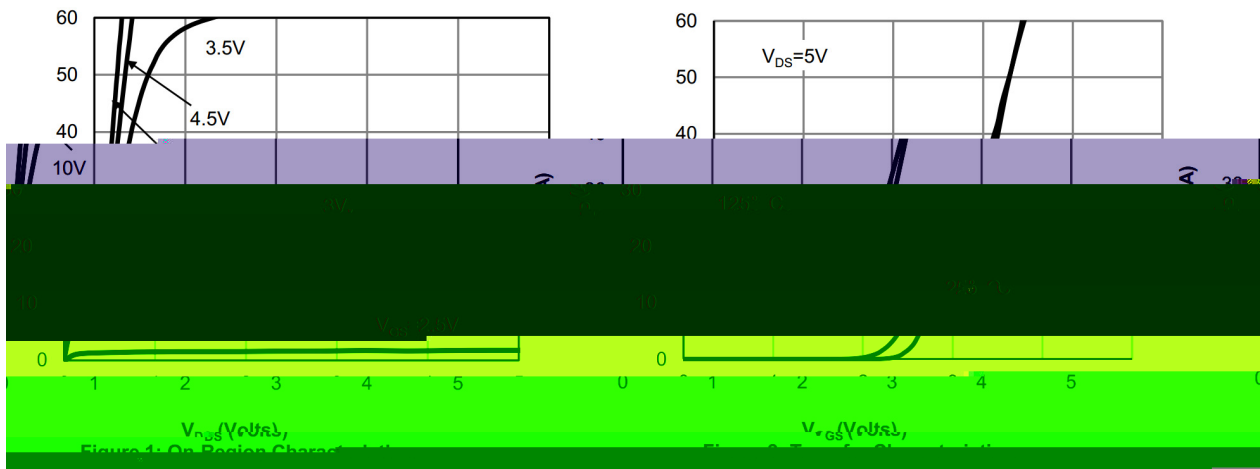
Rev.A Jul.-2023

Parameter

电性能参数 /

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=15\text{ V}$ $V_{GS}=10\text{V}$ $R_L=0.75\Omega$ $R_{GEN}=3\Omega$		11		ns
Turn-On Rise Time	t_r			14		ns
Turn-Off Delay Time	$t_{d(off)}$			38		ns
Turn-Off Fall Time	t_f			10		ns

电参数曲线图



e-Source Voltage

Figure 6: Body-Diode Characteristics

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

电参数曲线图

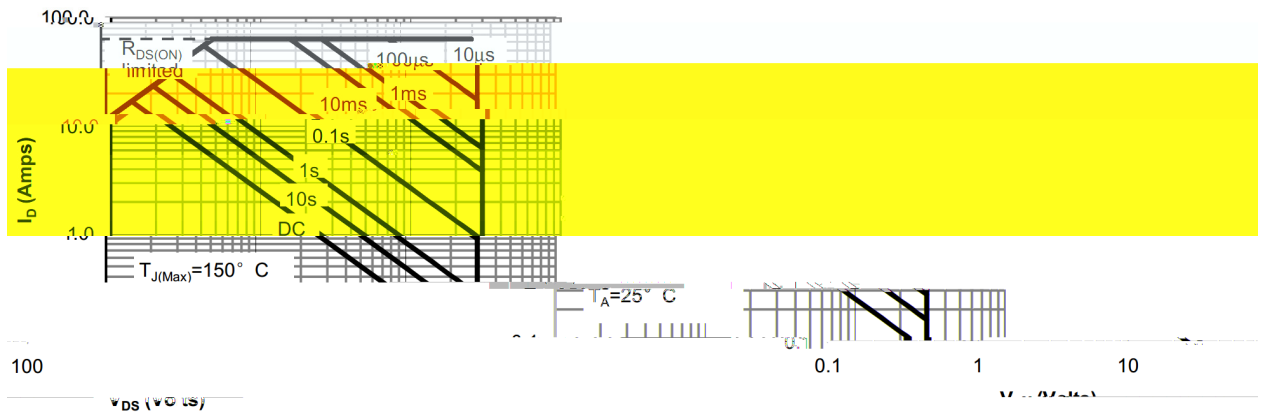
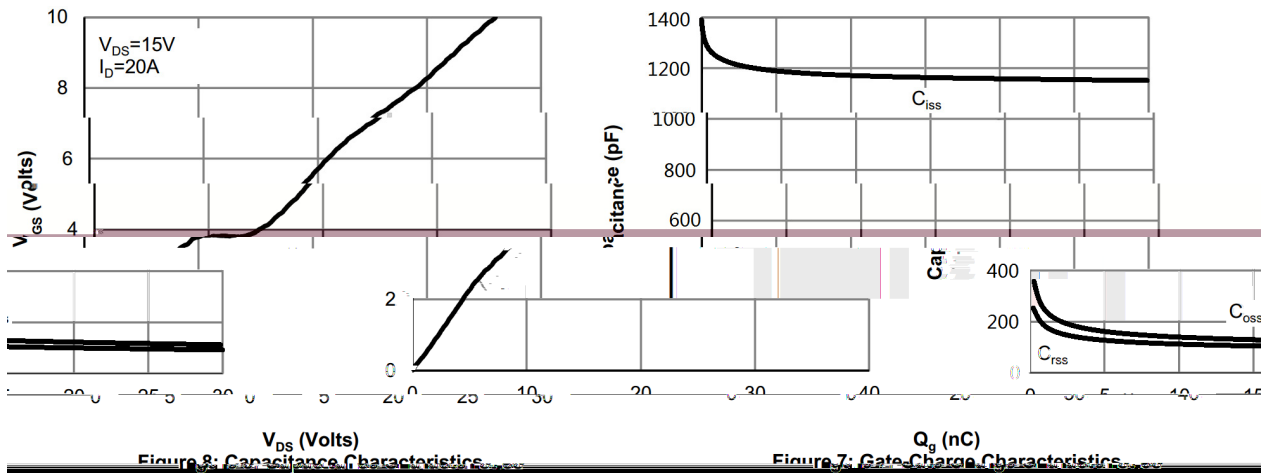


Figure 9: Maximum Forward Biased Safe Operating Area

Figure

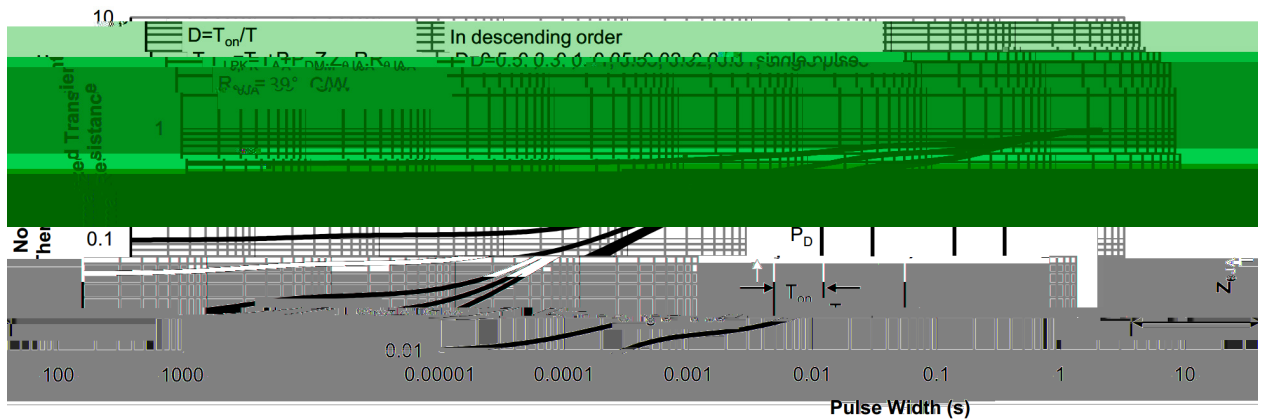
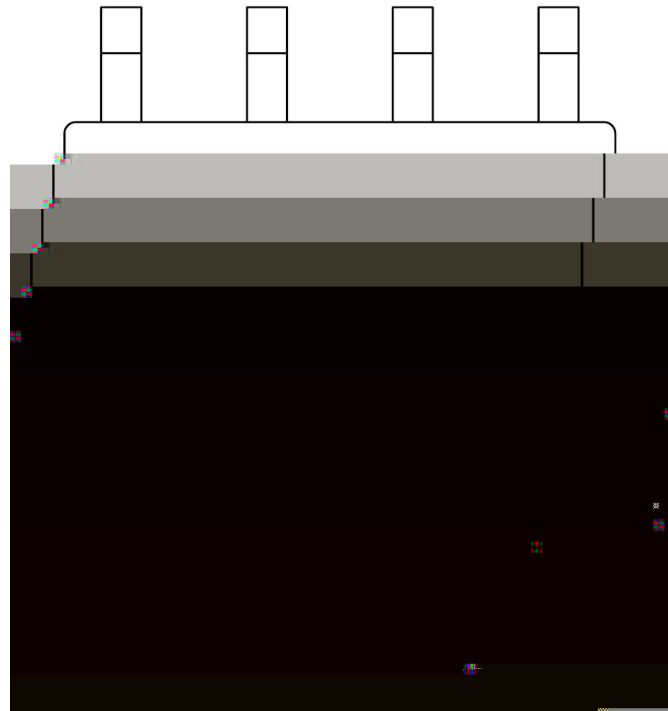


Figure 10: Normalized Maximum Transient Thermal Impedance

外形尺寸图



印章说明



BR

070N03D

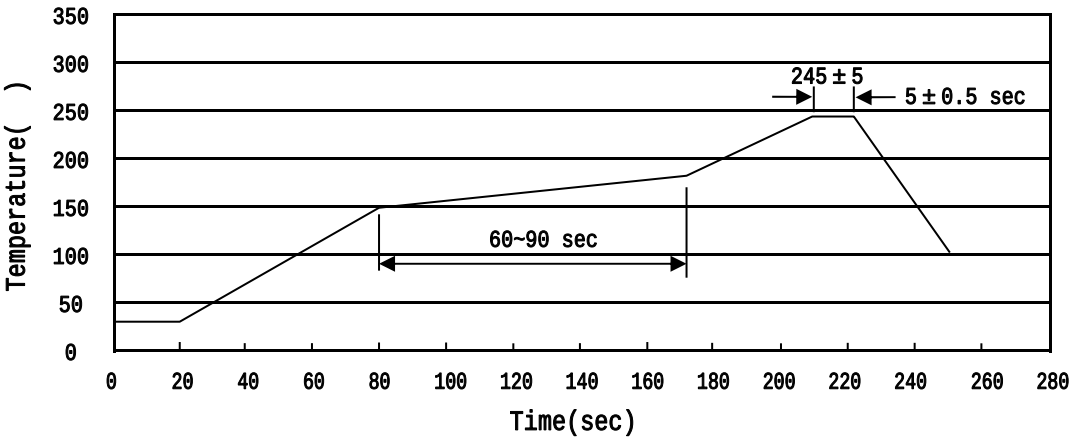
Note:

BR: Company Code

070N03D: Product Type

回流焊温度曲线图 无铅

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|----|-----------|--|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 °C , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 °C , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 °C/sec. |

耐焊接热试验条件

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec
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包装规格

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOP/ESOP-8	4,000	2	8,000	6	48,000	13 ×12	360×360×50	380×335×366

使用说明