

/ Descriptions

DFN2×2C-6L
Complementary Enhancement MOSFET in a DFN2×2C-6L Plastic Package.

/ Features

- N-channel

$V_{DS(V)}=16V$

$I_D=8.4A$

$R_{DS(ON)}@4.5V\leq 15m\Omega$ (Typ.13mR)

$R_{DS(ON)}@2.5V\leq 18m\Omega$ (Typ.16mR)
- P-channel

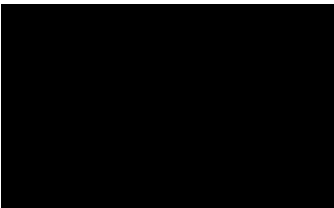
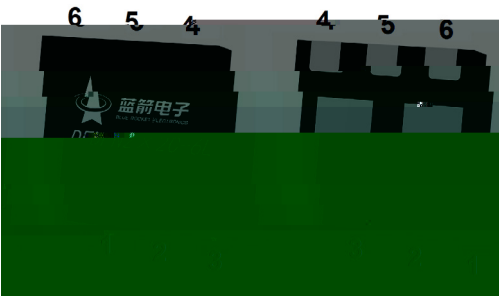
$V_{DS(V)}=-16V$

$I_D=-6.3A$

$R_{DS(ON)}@-4.5V\leq 25m\Omega$ (Typ.21mR)

$R_{DS(ON)}@-2.5V\leq 35m\Omega$ (Typ.28mR))
- HF Product.

Power Management in Notebook Computer,Portable Equipment and Battery Powered Systems.



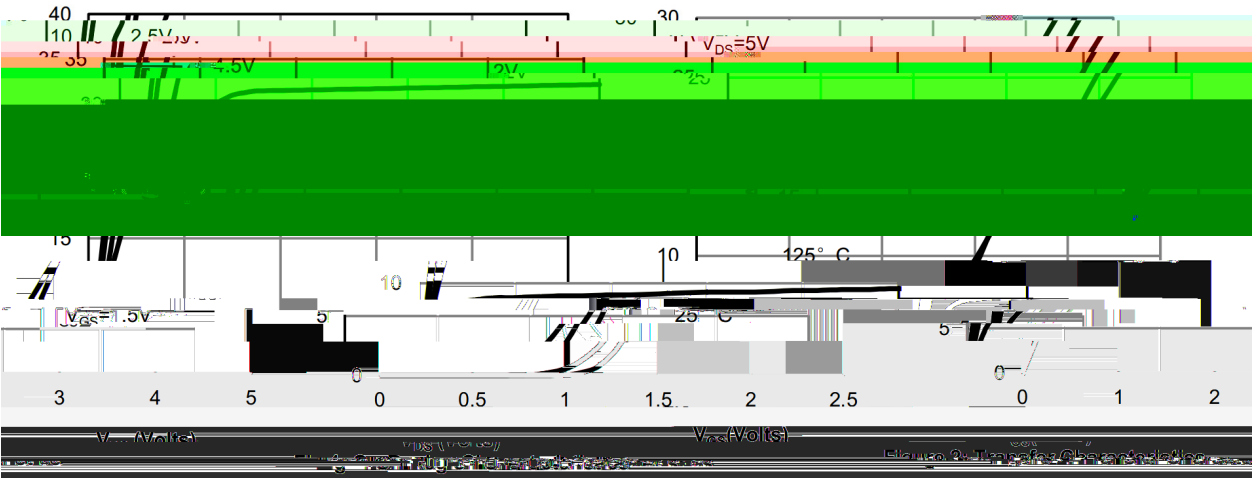
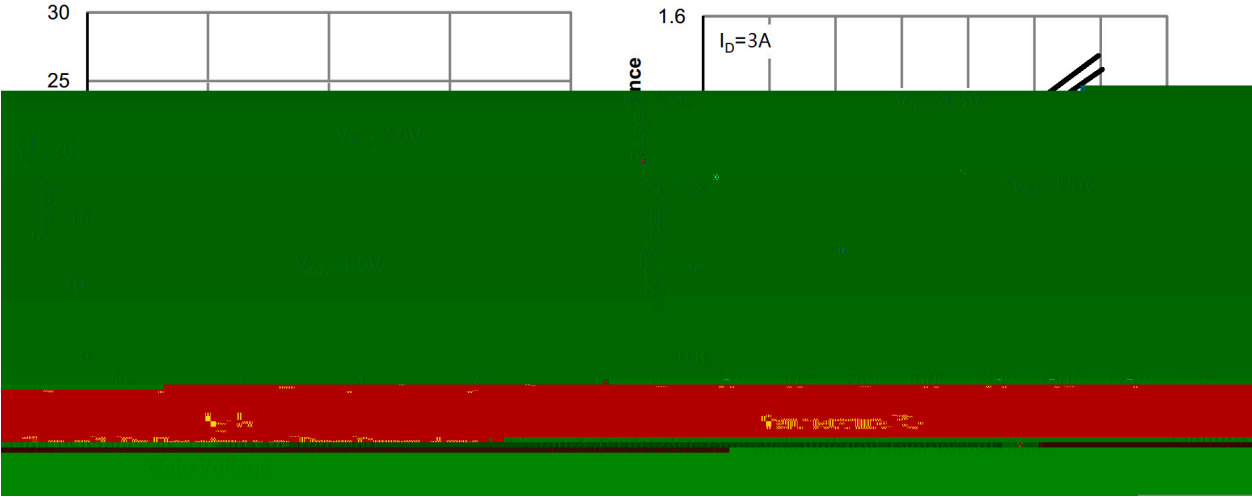
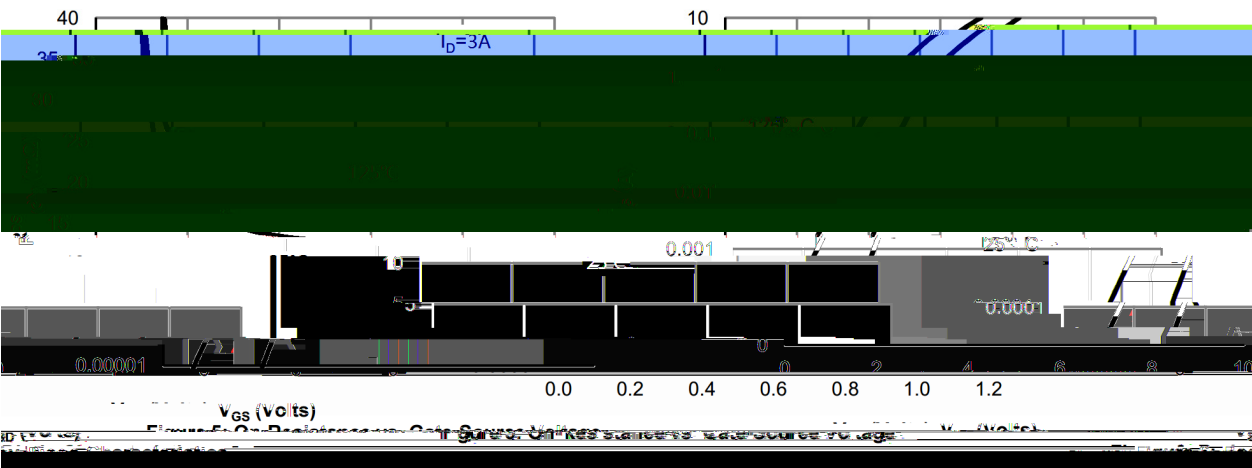
出脚	定义
PIN 1	S1
PIN 2	G1
PIN 3	D2
PIN 4	S2
PIN 5	G2
PIN 6	D1

See Marking Instructions.



Parameter	Symbol	Rating		Unit
		N-channe	P-channell	
Drain-Source Voltage	V _{DSS}	±16		V
Gate-Source Voltage	V _{GSS}	±10		V
Continuous Drain Current	I _D	8.4	-6.3	A
Pulsed Drain Current	I _{DM}	33	-24.5	A
Avalanche Current(L=0.1mH)	I _{AS}	7	14	A
Avalanche energy(L=0.1mH)	E _{AS}	6.5	26	mJ
Power Dissipation	P _D	1.6	1.5	W
Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150		
Maximum Junction-to-Ambient	R _{θJA} (t ≤ 10s)	78	83	/W
	R _{θJA} (Steady-State)	135		

N- / N-CHANNEL Electrical Characteristic Curve



Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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BRCS150C016YN

Rev.A Jul.-2023

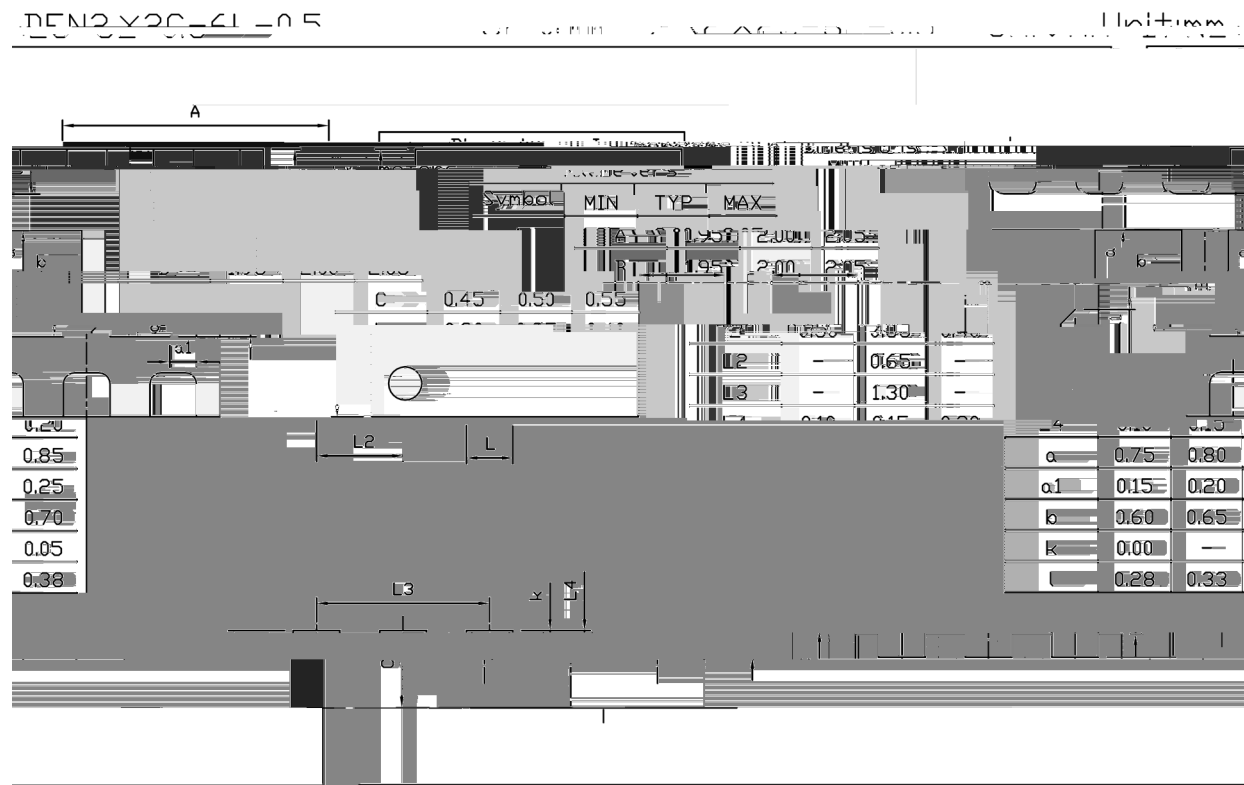


蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

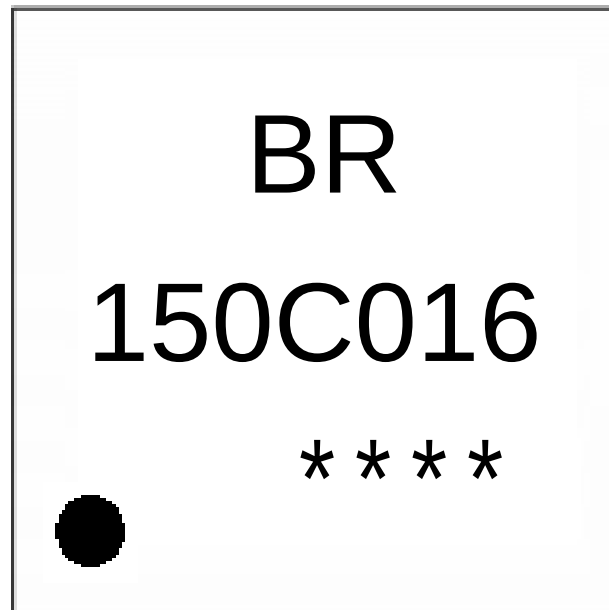
P-

/ Package Dimensions





/ Marking Instructions



BR

150C016

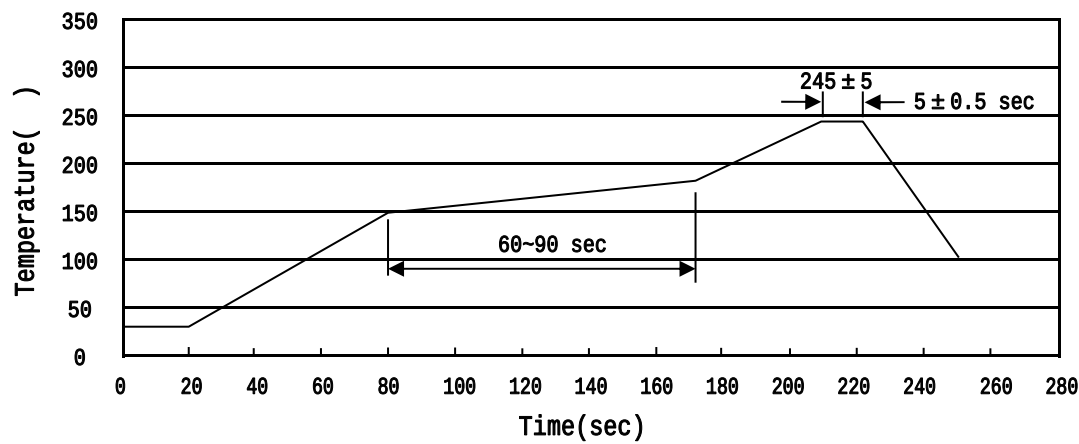
Note:

BR: Company Code

150C016: Product Type

****: Lot No. Code, code change with Lot No

() / 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. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
DFN 2×2C-6L	4,000	10	40,000	4	160,000	7 ×8	210×205×205	445×435×230

/ Notices