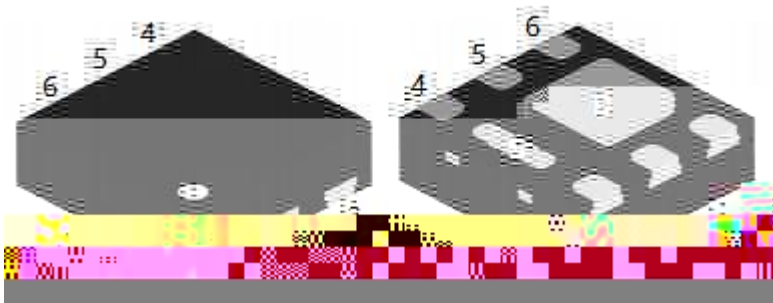
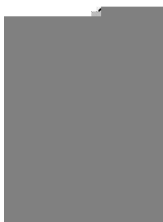


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DFN 2*2B-6L P-Channel MOSFET / fi
P-Channel Enhancement Mode Field Effect Transistor in a DFN 2*2B-6L Plastic Package.

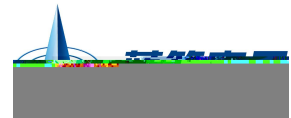
$V_{DS} (V) = -12V$
 $I_D = -8 A (V_{GS} = \pm 10V)$
HF Product.

Power Management in Notebook computer, Portable Equipment and Battery powered systems.

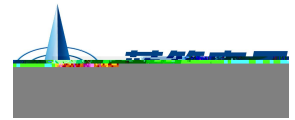


| 出脚 | 定义 |
|------|----|
| Pin1 | D |
| Pin2 | D |
| Pin3 | G |
| Pin4 | S |
| Pin5 | D |
| Pin6 | D |

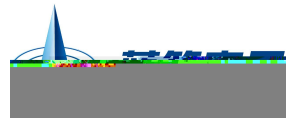
0 1 2 3 4 See Marking Instructions.

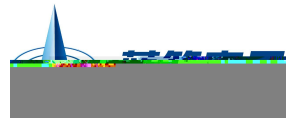


| Parameter | Symbol | Rating | Unit |
|--------------------------|------------------------------|----------|------|
| Drain-Source Voltage | V_{DSS} | -12 | V |
| Gate-Source Voltage | V_{GSS} | ± 10 | V |
| Continuous Drain Current | $I_D (T_a=25^\circ\text{C})$ | -8 | A |
| Continuous Drain Current | $I_D (T_a=70^\circ\text{C})$ | -6 | A |
| Pulsed Drain Current | I_{DM} | -32 | A |
| Avalanche Current | I_{AS} | | |

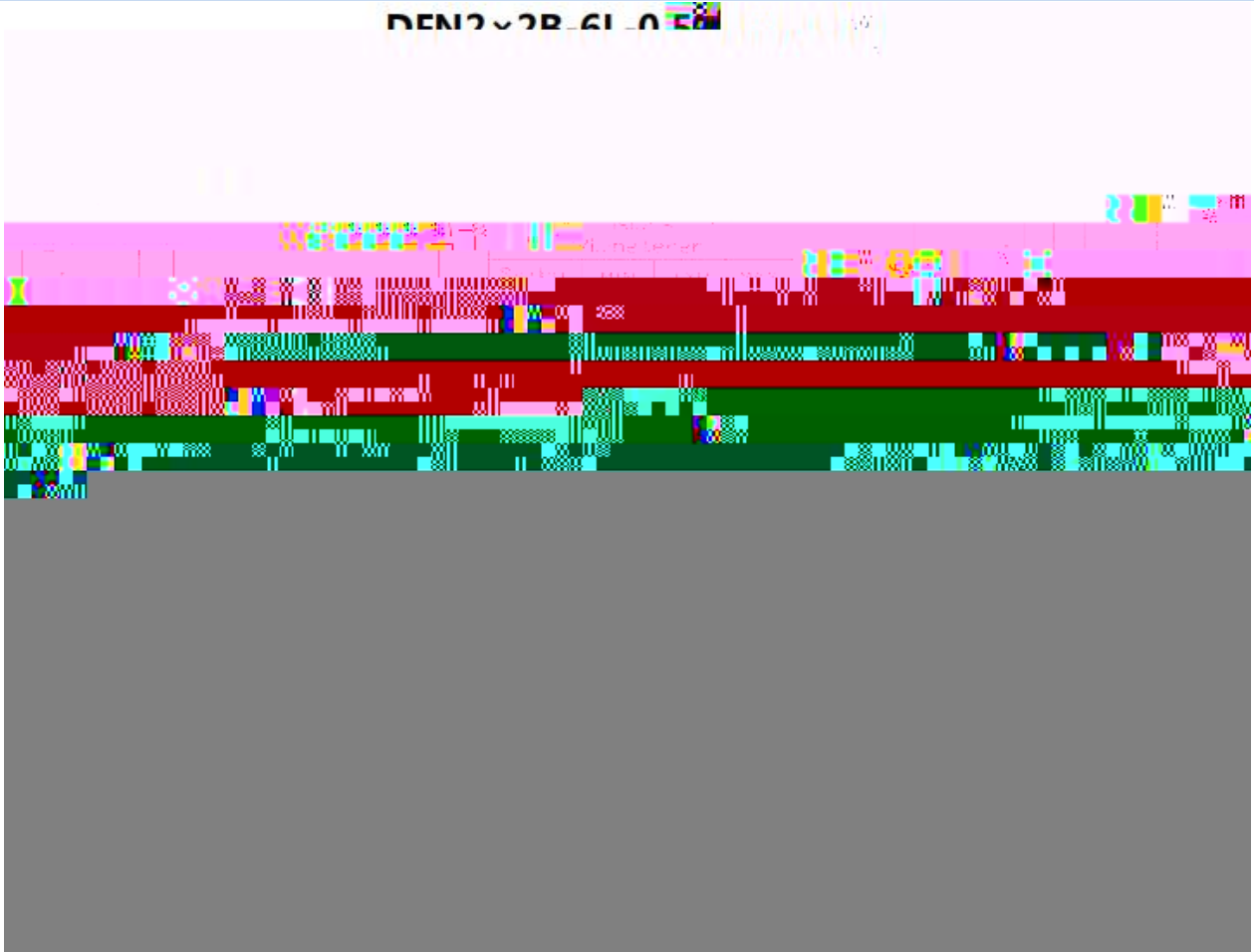


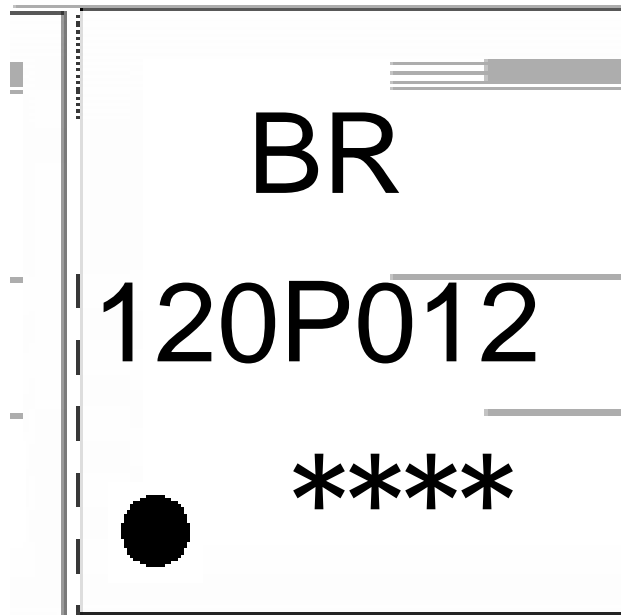
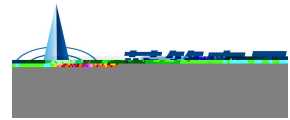
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------------------------------|--------------|---|------|-------|-----------|------------|
| Drain-Source Breakdown Voltage | BV_{DSS} | $I_D=-250\mu A$ $V_{GS}=0V$ | -12 | -17 | | V |
| Zero Gate Voltage Drain Current | I_{DSS} | $V_{DS}=-12V$ $V_{GS}=0V$ | | | -1.0 | μA |
| | | $V_{DS}=-9.6V$ $V_{GS}=0V$ $T_J=55^\circ C$ | | | -5.0 | |
| Gate-Body leakage current | I_{GSS} | $V_{DS}=0V$ $V_{GS}=\pm 10V$ | | | ± 100 | nA |
| Gate Threshold Voltage | $V_{GS(th)}$ | $V_{DS}=V_{GS}$ $I_D=-250\mu A$ | -0.4 | -0.7 | -1.0 | V |
| Static Drain-Source On-Resistance | $R_{DS(ON)}$ | $V_{GS}=-10V$ $I_D=-10A$ | | 10 | 12 | m Ω |
| | | $V_{GS}=-4.5V$ $I_D=-8A$ | | 11.5 | 14 | |
| | | $V_{GS}=-2.5V$ $I_D=-5A$ | | 15.8 | 18 | |
| Diode Forward Voltage | V_{SD} | $I_S=-1A$ $V_{GS}=0V$ | | -0.74 | -1.0 | V |
| Gate Resistance | R_g | $V_{GS}=0V$ $V_{DS}=0V$ $f=1MHz$ | | 6.7 | | |
| Input Capacitance | C_{iss} | $V_{DS}=-15V$ $V_{GS}=0V$ $f=1.0MHz$ | | 2110 | | μF |
| Output Capacitance | C_{oss} | | | 550 | | |
| Reverse Transfer Capacitance | C_{rss} | | | 385 | | |
| Total Gate Charge | Q_g | $V_{GS}=-4.5V$ $V_{DS}=-6V$ $I_D=-10A$ | | 12.7 | | nC |
| Gate-Source Charge | Q_{gs} | | | 1.7 | | |
| Gate-Drain Charge | Q_{gd} | | | 3.4 | | |
| Turn-on Delay Time | $t_{d(ON)}$ | $V_{GS}=-4.5V$ $V_{DS}=-6V$ $R_L=0.67$ $R_{GEN}=3$ | | 11 | | ns |
| Turn-on Rise Time | t_r | | | 25 | | |
| Turn-off Delay Time | $t_{d(OFF)}$ | | | 70 | | |
| Turn-off Fall Time | t_f | | | 41.5 | | |





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BR
120P012

Note:

BR: Company Code.

120P012: Product Type

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

