LFPAK5×6

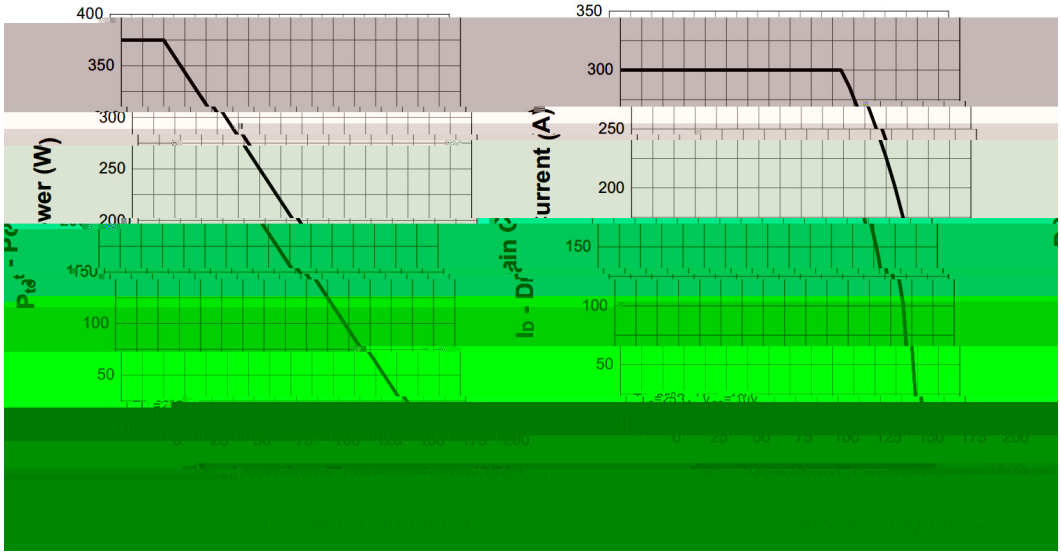
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Drain-Source Voltage | $V_{DS}$ | 30 | V |
| Drain Current | $I_D$(Tc=25 ) | 300 | A |
| | $I_D$(Tc=100 ) | 300 | A |
| Pulsed Drain Current | $I_{DM}$ | 1200 | A |
| Gate-Source Voltage | $V_{GS}$ | 20 | V |
| Single Pulsed Avalanche Energy L=1.0mH | $E_{AS}$ | 1624 | mJ |
| Continuous-Source Current | $I_S$ | 300 | A |
| Total Power Dissipation | $P_D$(Tc=25 ) | 375 | W |
| Junction and Storage Temperature Range | $T_J$,$T_{STG}$ | -55 to 175 | |

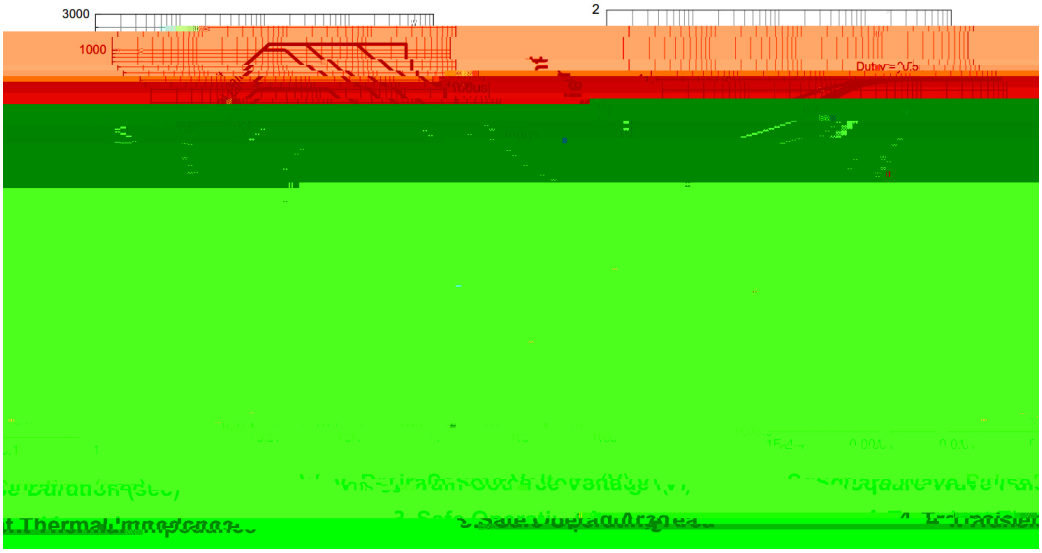
Thermal Resist16 85(Thermal Res)-8.7( 7.08.48 ref388.74 610.64 .4799898 346.14 78-)]TJ7.01 1 Ambie01370138

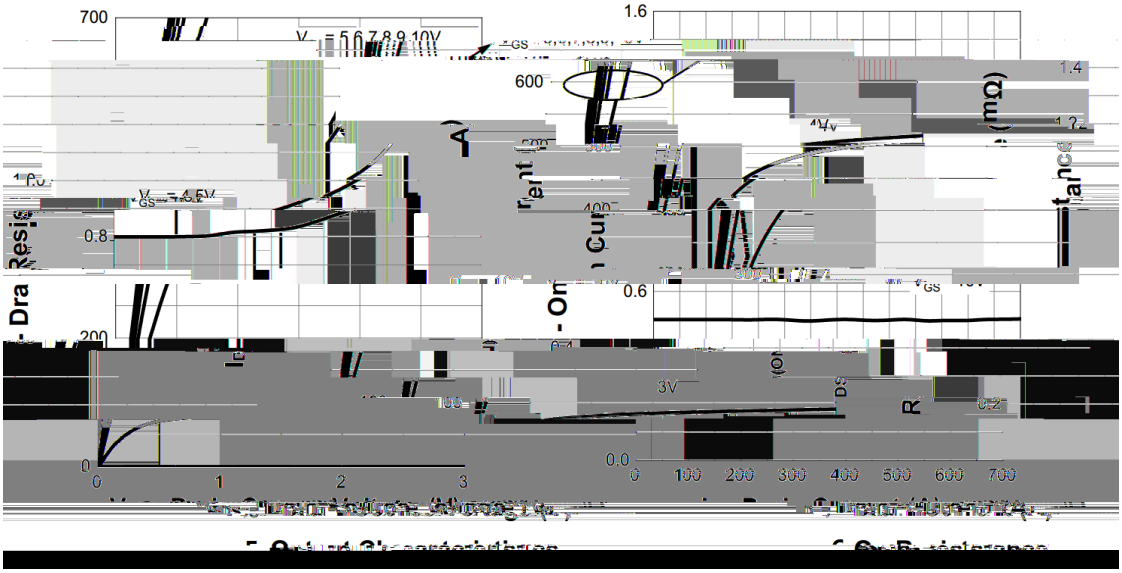
## / Electrical Characteristics(Ta=25 )

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Total Gate Charge | $Q_g$ | $V_{GS}$=10V, $V_{DS}$=15V, $I_D$=50A | | 306 | | nC |
| Gate Source Charge | $Q_{gs}$ | | | 63 | | |
| Gate Drain Charge | $Q_{gd}$ | | | 44 | | |
| Turn-On Delay Time | $t_{d(on)}$ | $V_{GEN}$=10V $V_{DS}$=15V $R_L$=0.3Ω $R_G$=3.9Ω $I_{DS}$=50A | | 23 | | ns |
| Turn-On Rise Time | $t_r$ | | | 151 | | |
| Turn-Off Delay Time | $t_{d(off)}$ | | | 249 | | |
| Turn-Off Fall Time | $t_f$ | | | 127 | | |

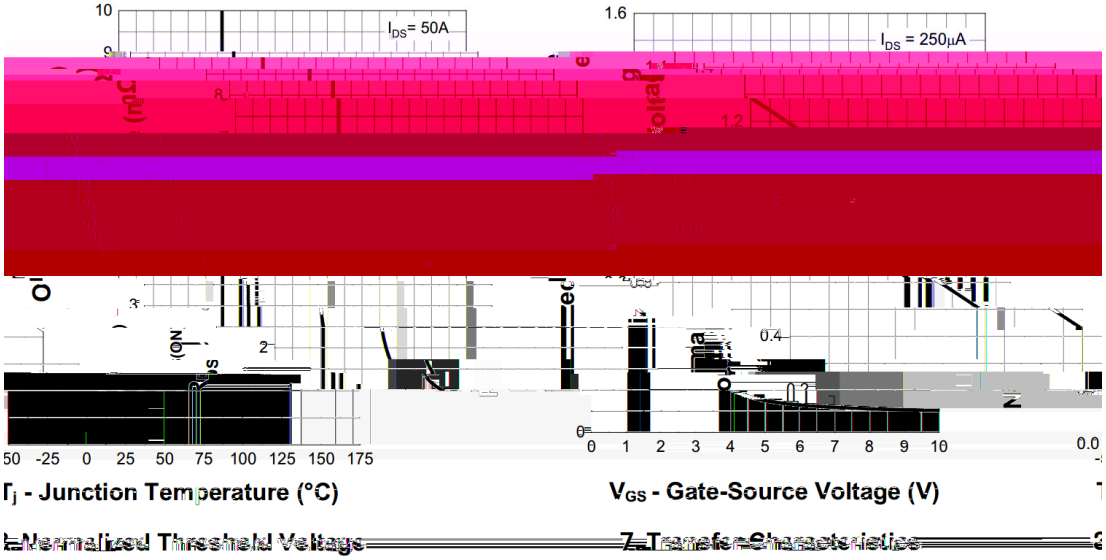
## / Electrical Characteristic Curve



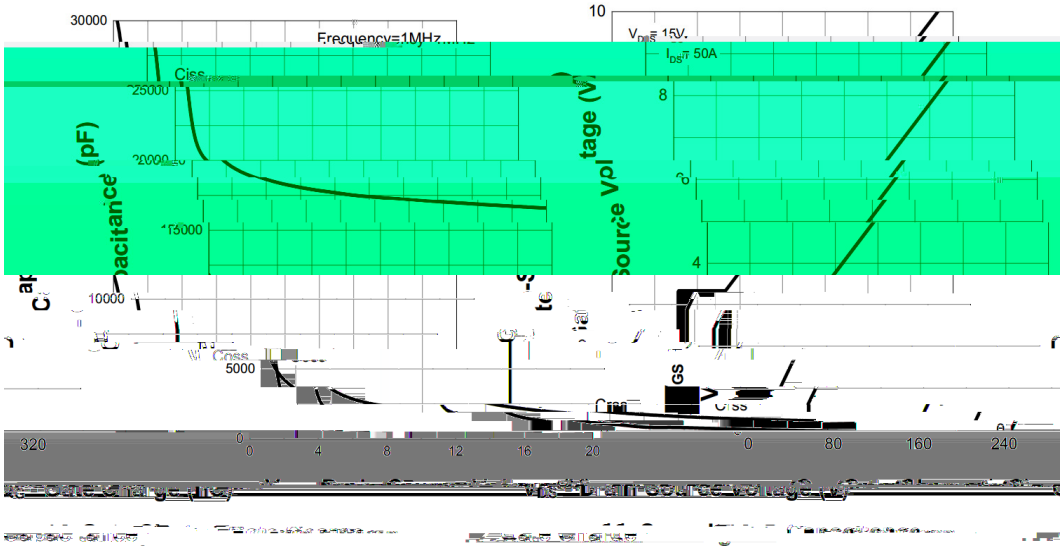



## / Electrical Characteristic Curve

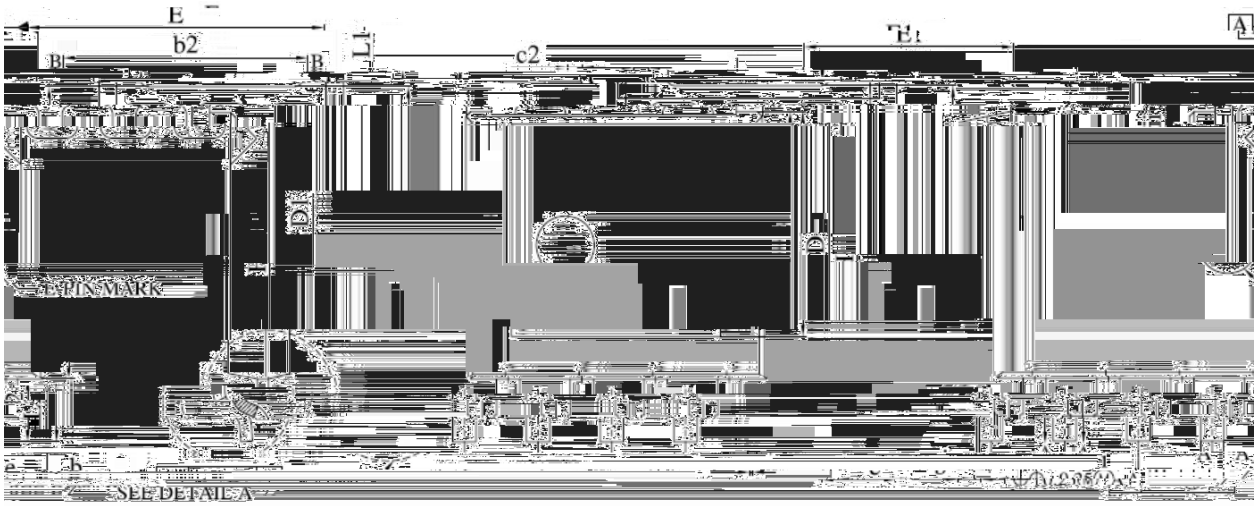


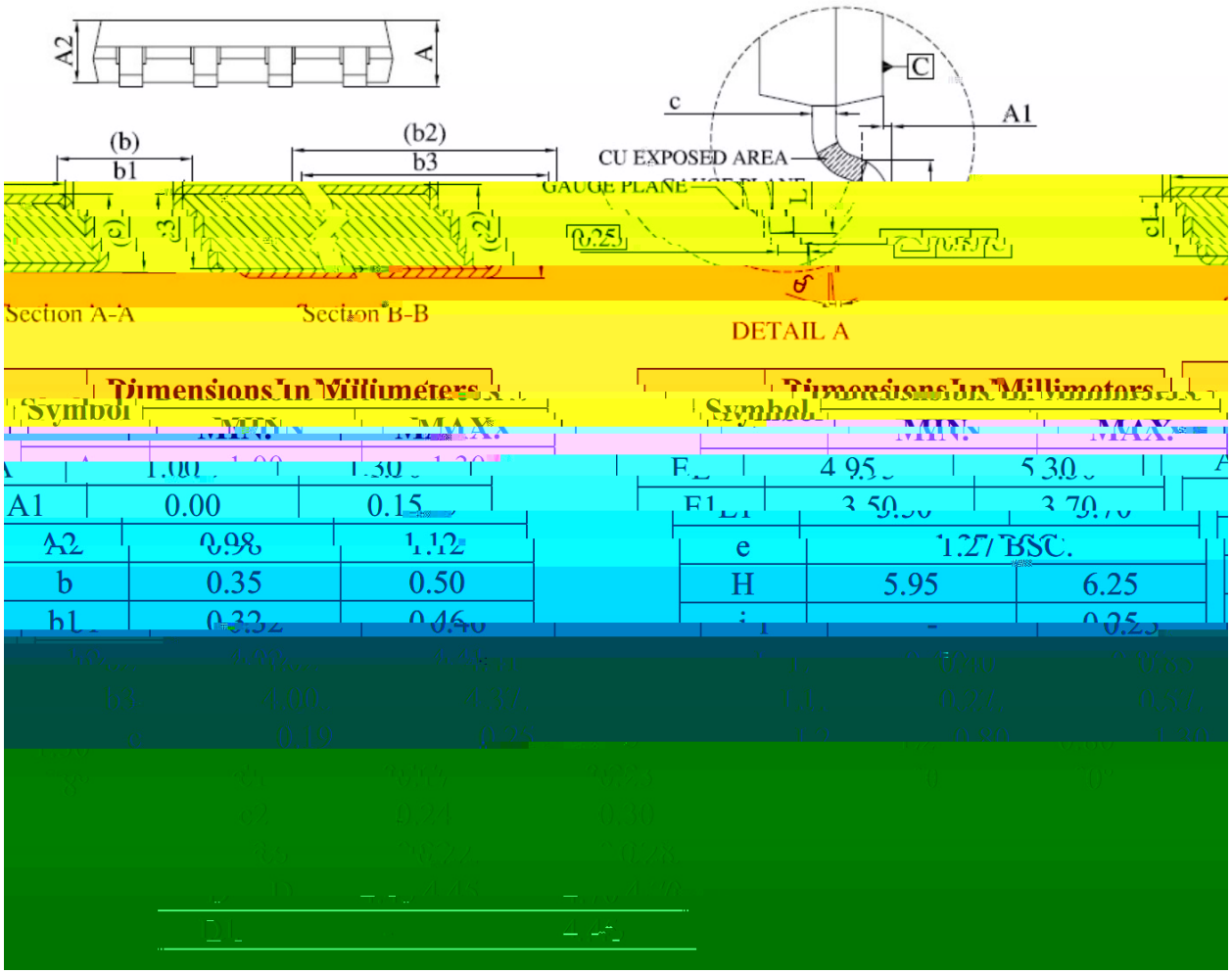






## / Package Dimensions




| Dimensions In Millimeters | | | Dimensions In Millimeters | | |
|---|---|---|---|---|---|
| Symbol | MIN. | MAX. | Symbol | MIN. | MAX. |
| A | 1.00 | 1.30 | E2 | 4.95 | 5.30 |
| A1 | 0.00 | 0.15 | E1 | 3.50 | 3.70 |
| A2 | 0.98 | 1.12 | e | 1.27 BSC. | |
| b | 0.35 | 0.50 | H | 5.95 | 6.25 |
| b1 | 0.32 | 0.46 | L | - | 0.25 |
| b2 | 4.00 | 4.30 | L1 | 0.20 | 0.50 |
| b3 | 4.00 | 4.30 | θ | 0° | 8° |
| c | 0.19 | 0.25 | θ1 | 0° | 10° |
| c1 | 0.19 | 0.25 | θ2 | 8° | 12° |
| c2 | 0.19 | 0.25 | | | |
| D | 4.80 | 5.10 | | | |
| D1 | 4.10 | 4.40 | | | |

## / Marking Instructions




BR

006N03S

****

Note

| | |
|---|---|
| BR: | Company Code |
| 006N03S: | Product Type Code |
| ****: | Lot No. Code, code change with Lot No. |

## ( ) / Temperature Pro b