

| Parameter | Symbol | Rating | Unit |
|----------------------------|-----------|---------|------|
| Drain-Source Voltage | V_{DSS} | -16 | V |
| Gate-Source Voltage | V_{GSS} | ± 8 | V |
| Continuous Drain Current | I_D | -5 | A |
| Pulsed Drain Current | I_{DM} | -23 | A |
| Avalanche Current | I_{AS} | 21 | A |
| Avalanche energy $L=0.5mH$ | E_{AS} | 308 | mJ |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------------------------------|--------------|---------------------------------------|------|------|-----------|------|
| Drain-Source Breakdown Voltage | BV_{DSS} | $I_D=-250\text{ A}$ $V_{GS}=0V$ | -16 | -18 | | V |
| Zero Gate Voltage Drain Current | I_{DSS} | $V_{DS}=-16V$ $V_{GS}=0V$ | | | -1.0 | A |
| Gate-Body leakage current | I_{GSS} | $V_{DS}=0V$ $V_{GS}=\pm 8V$ | | | ± 100 | nA |
| Gate Threshold Voltage | $V_{GS(th)}$ | $V_{DS}=V_{GS}$ $I_D=-250\text{ A}$ | -0.5 | -0.6 | -1.0 | V |
| Static Drain-Source On-Resistance | $R_{DS(ON)}$ | $V_{GS}=-4.5V$ $I_D=-2.0A$ | | 27 | 32 | m |
| | | $V_{GS}=-2.5V$ $I_D=-2.0A$ | | 37.3 | 42 | |
| | | $V_{GS}=-1.8V$ $I_D=-2.0A$ | | 51 | 60 | |
| Diode Forward Voltage | V_{SD} | $I_S=-1A$ $V_{GS}=0V$ | | 0.75 | | V |
| Total Gate Charge | Q_g | $V_{GS}=-4.5V$ $V_{DS}=-10V$ I_D | | | | |

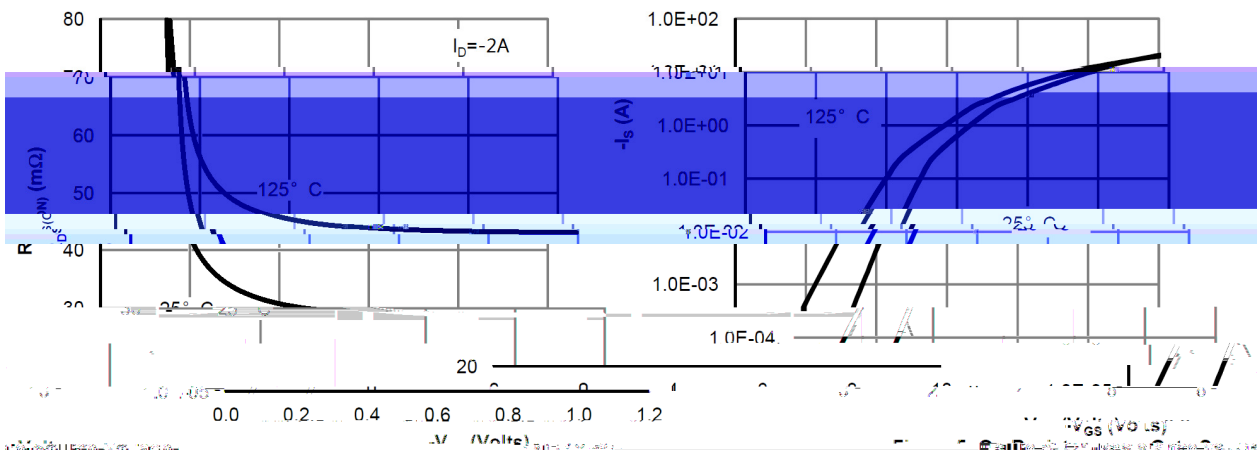
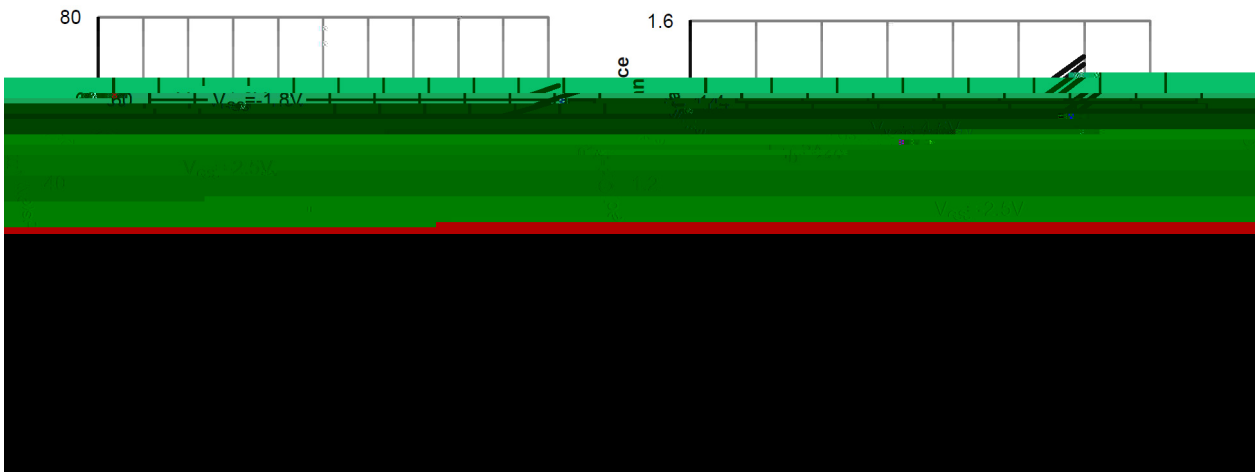
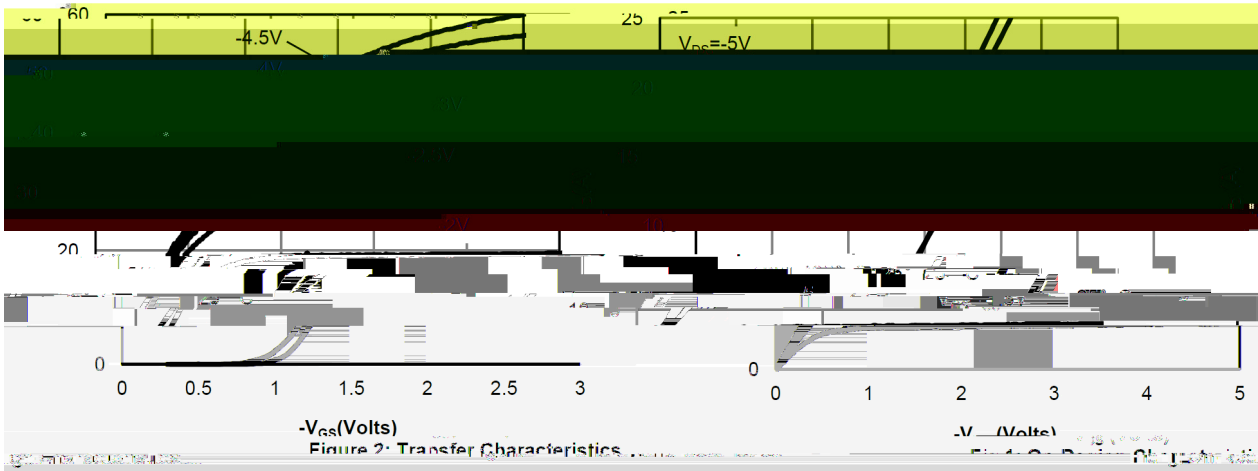
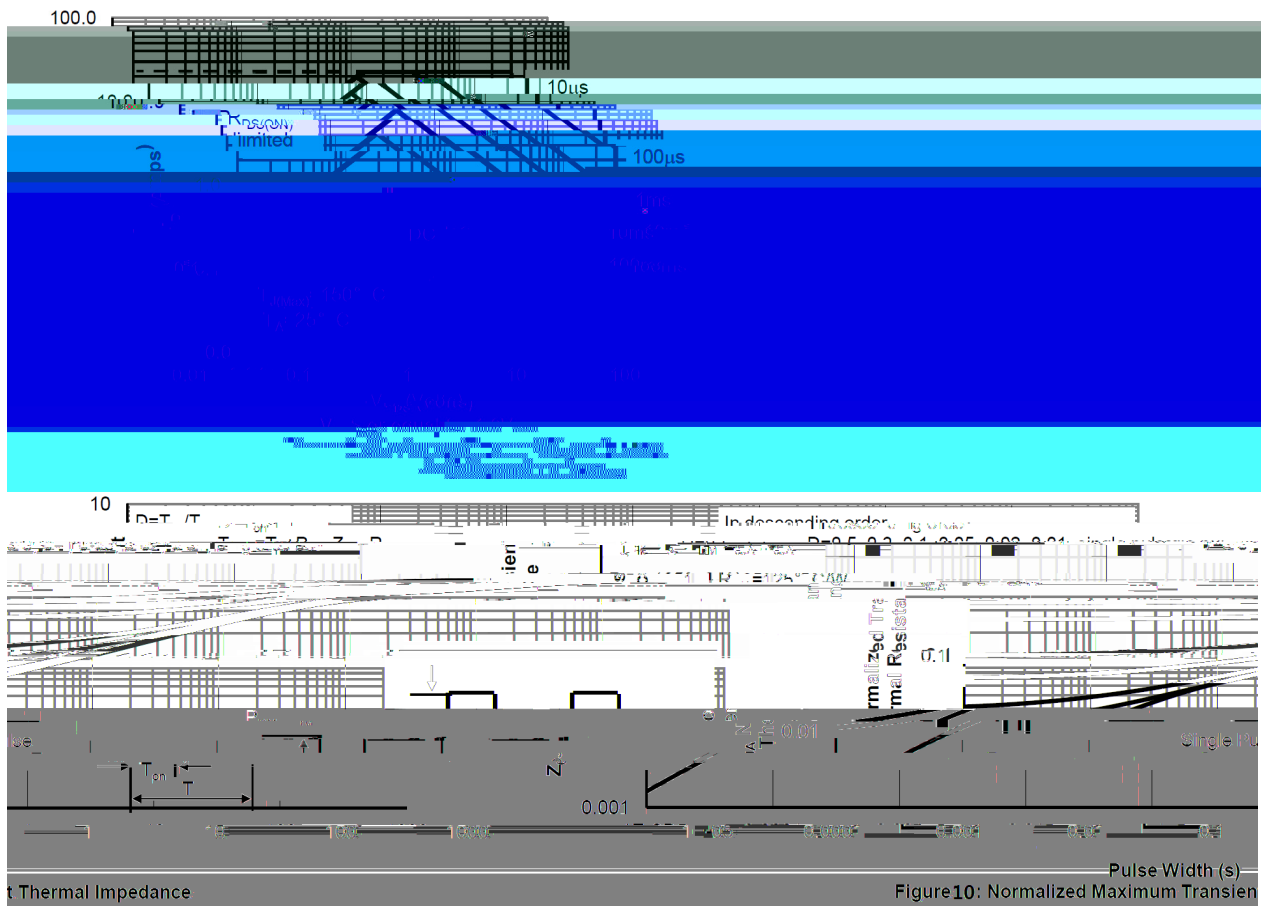
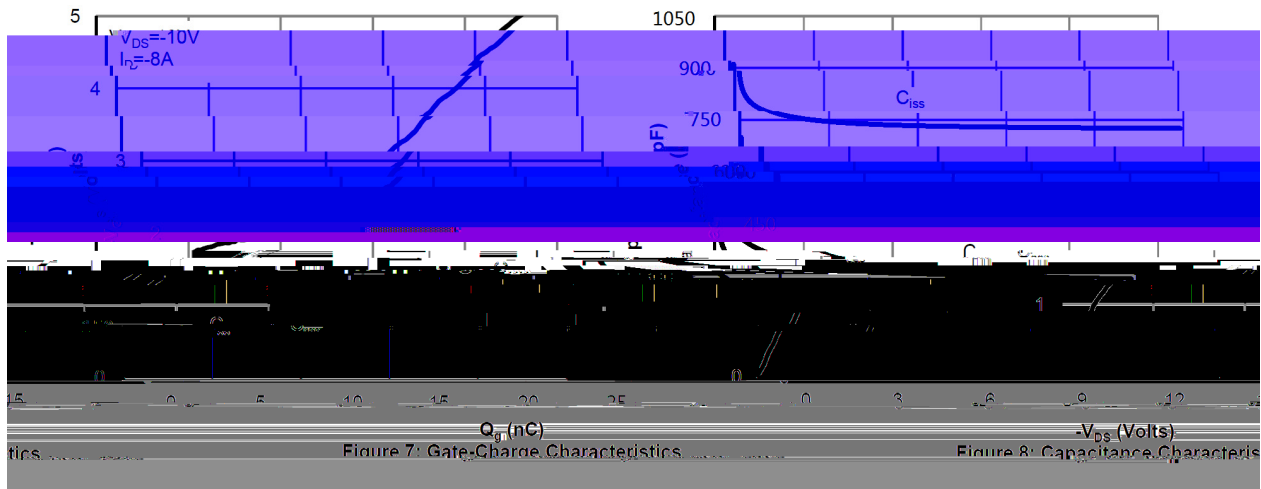
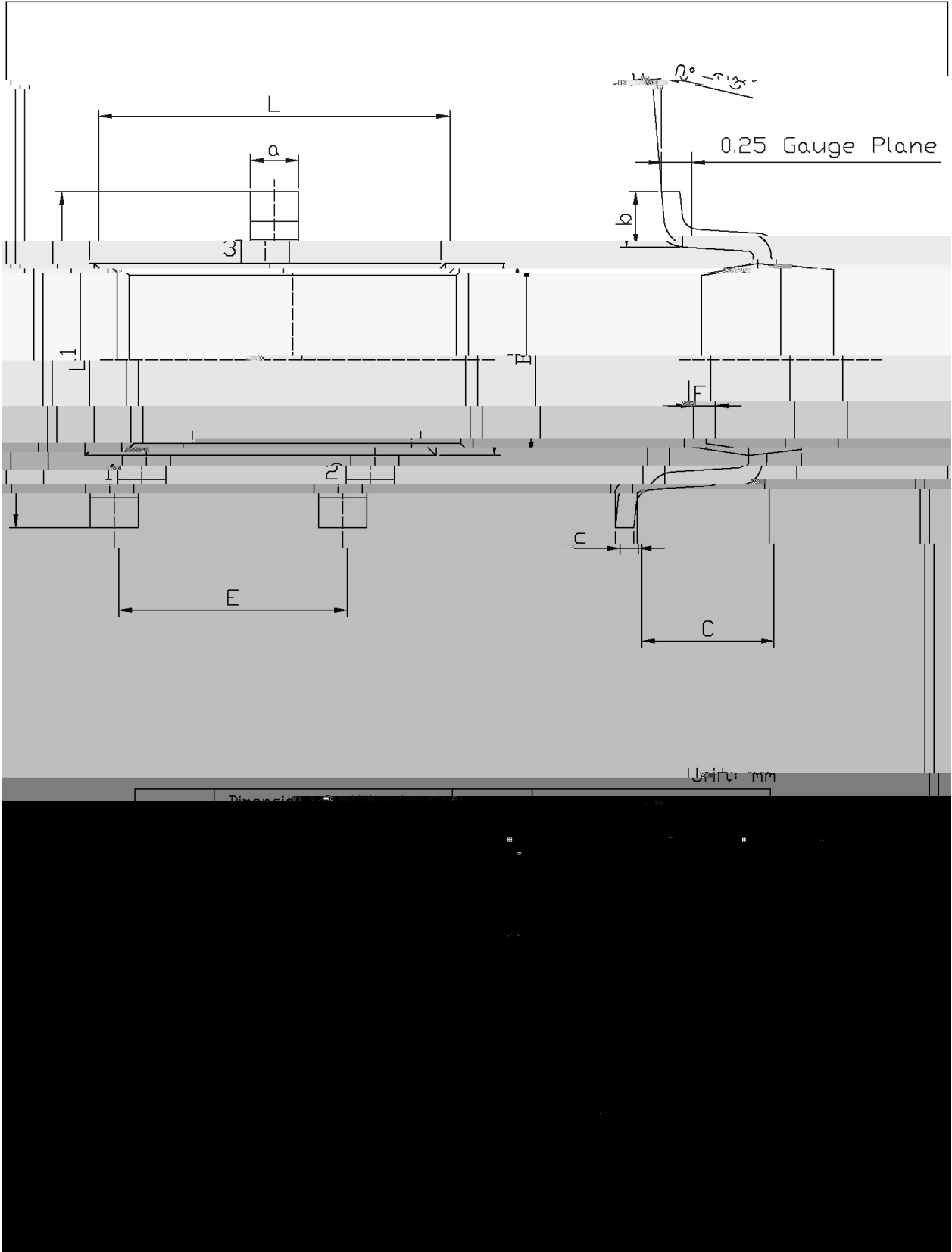
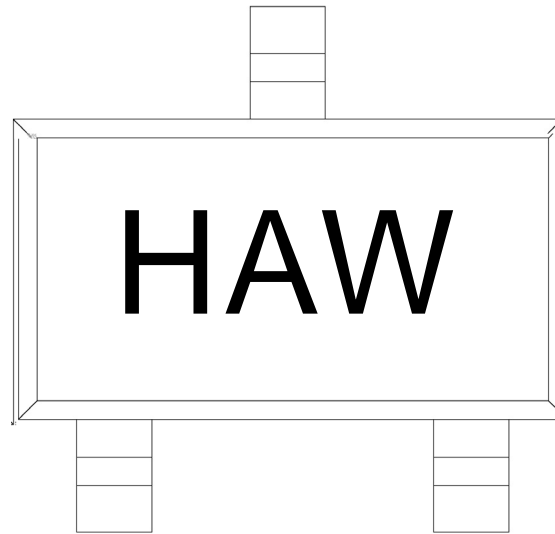


Figure 6:







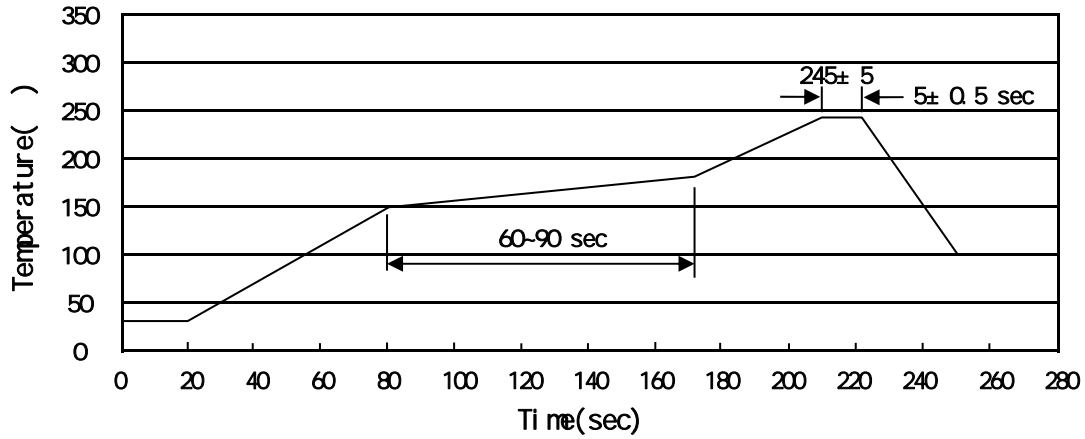
H:

AW:

Note:

H: Company Code

AW Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)


Note:

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

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ 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 |
| SOT23-3 | 3,000 | 10 | 30,000 | 4 | 120,000 | 7 x8 | 210x205x205 | 445x435x230 |