

Product Summary

The ZMD68203U combines advanced trench MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.

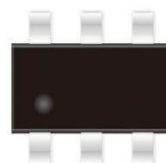


Trench technology
 $R_{DS(ON)}$ to minimize conductive loss

Dual DIE in one package



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



| | |
|---------------------------|-----------|
| Part NO. | ZMD68203U |
| Marking | ZMD68203 |
| Packing Information | REEL TAPE |
| Basic ordering unit (pcs) | 3000 |

$T_C = 25$

| Parameter | Symbol | Rating | Unit |
|------------------------------------|----------------|------------|------|
| Drain-Source Voltage | V_{DS} | 20 | V |
| Gate-Source Voltage | V_{GS} | ± 12 | V |
| Continuous Drain Current | $I_{D@TC=25}$ | 6.5 | A |
| | $I_{D@TC=75}$ | 4.9 | A |
| | $I_{D@TC=100}$ | 4.1 | A |
| Pulsed Drain Current | I_{DM} | 15 | A |
| Total Power Dissipation($TC=25$) | $P_D@TC=25$ | 3.6 | W |
| Total Power Dissipation($TA=25$) | $P_D@TA=25$ | 0.69 | W |
| Operating Junction Temperature | T_J | -55 to 150 | |
| Storage Temperature | T_{STG} | -55 to 150 | |
| Single Pulse Avalanche Energy | E_{AS} | 30 | mJ |





Fig.7 Switching Time Measurement Circuit

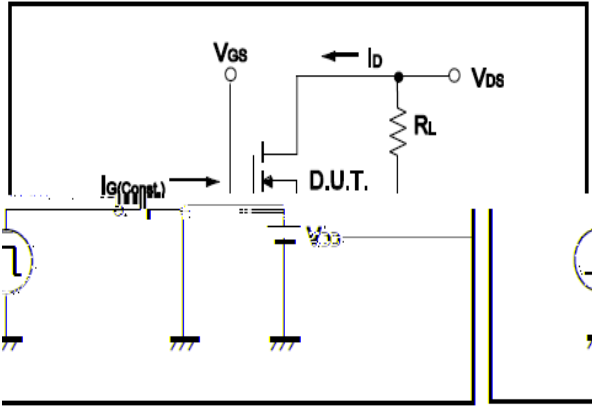


Fig.8 Gate Charge Waveform

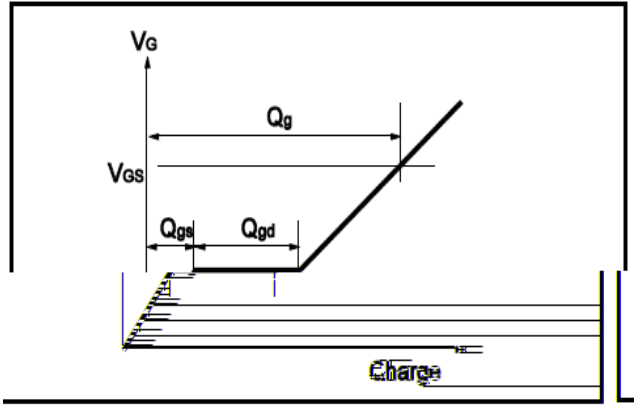


Fig.9 Switching Time Measurement Circuit

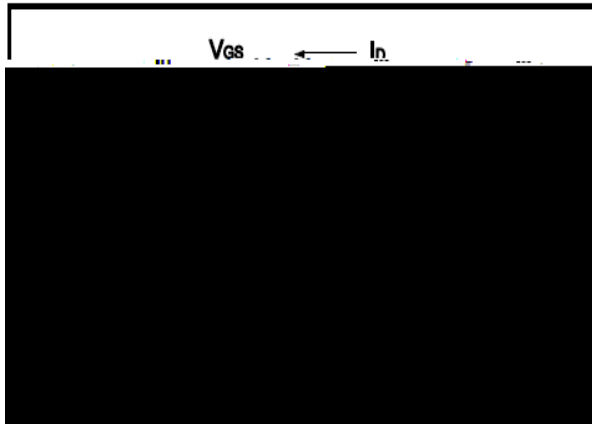


Fig.10 Gate Charge Waveform

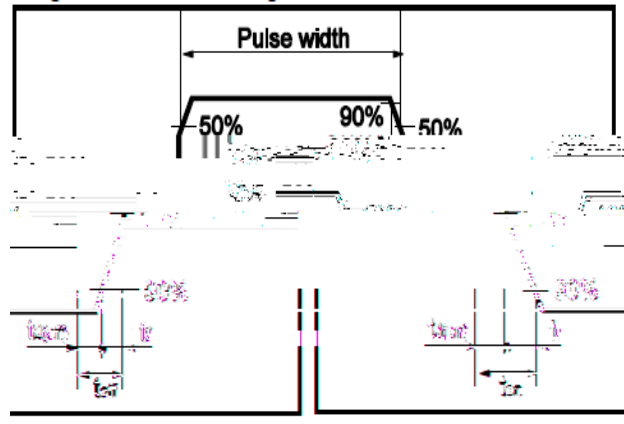


Fig.11 Avalanche Measurement Circuit

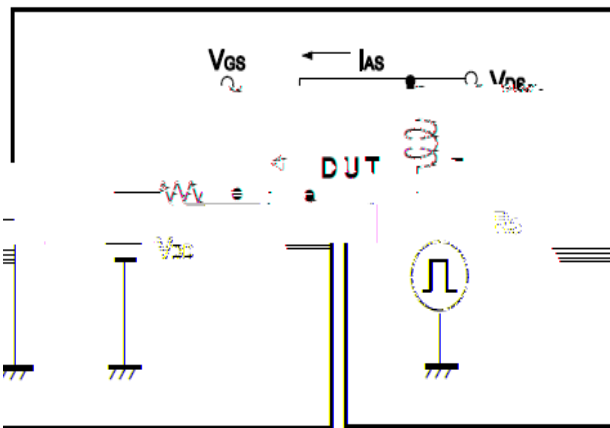
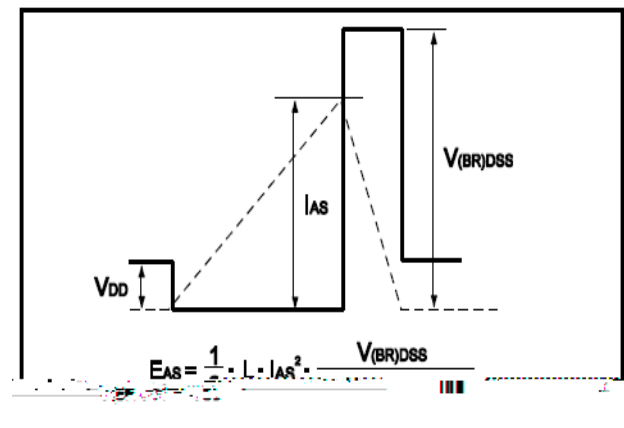


Fig.12 Avalanche Waveform





(SOT23-6)

Unit mm

