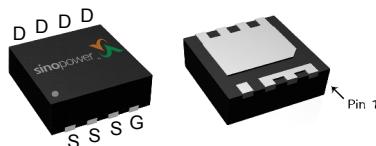


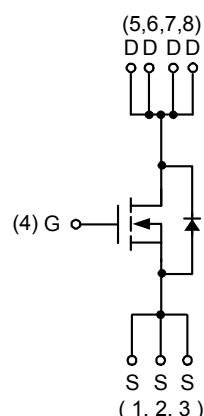
N-Channel Enhancement Mode MOSFET

Features

- 30V/25A,
 $R_{DS(ON)} = 16\text{m}\Omega(\text{max.}) @ V_{GS} = 10\text{V}$
 $R_{DS(ON)} = 21.5\text{m}\Omega(\text{max.}) @ V_{GS} = 4.5\text{V}$
- Avalanche Rated
- 100% UIS + R_g Tested
- Reliable and Rugged
- Lead Free and Green Devices Available
(RoHS Compliant)

Pin Description

DFN3x3D-8_EP



N-Channel MOSFET

Applications

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

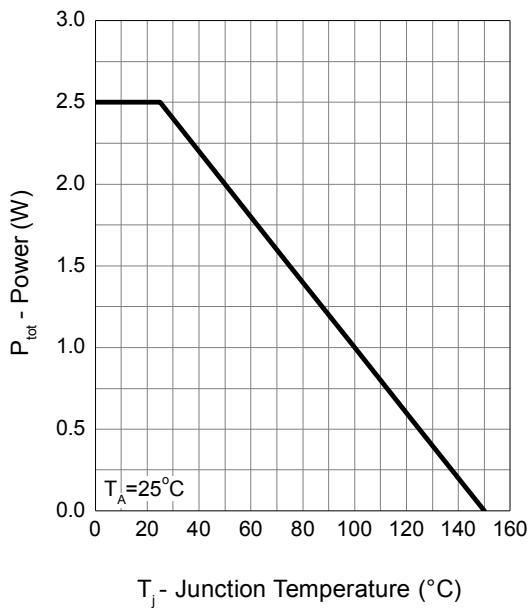
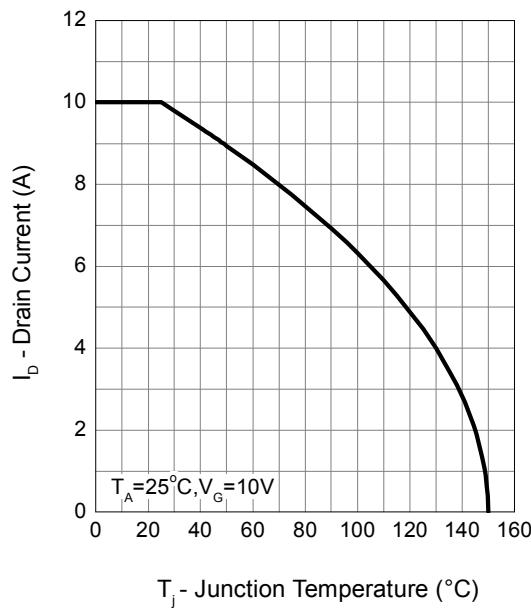
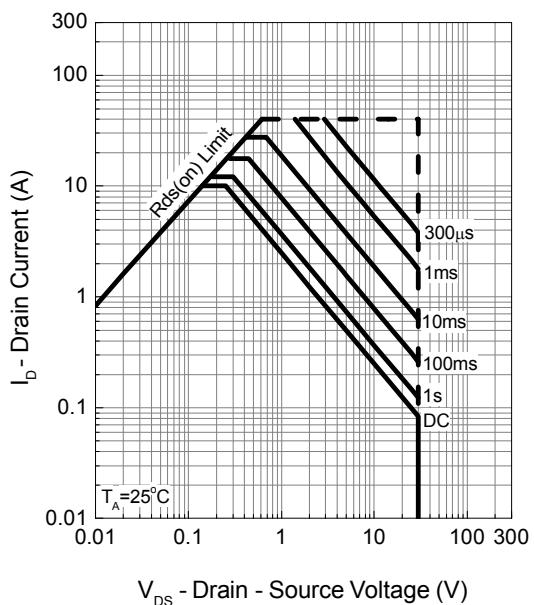
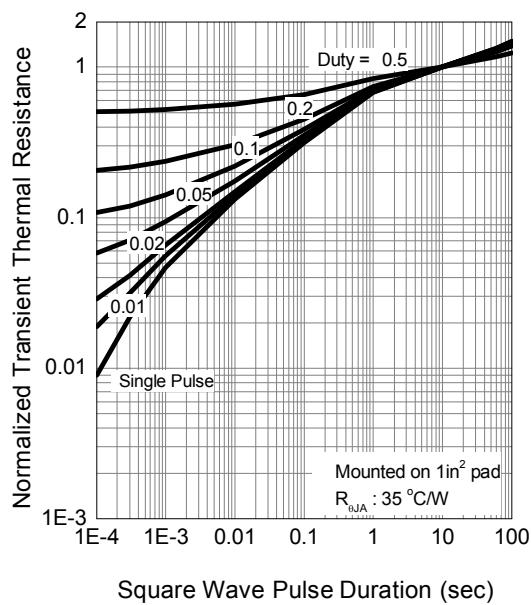
Ordering and Marking Information

SM3316NS □□□-□□ □	Package Code QG : DFN3x3D-8_EP Operating Junction Temperature Range C : -55 to 150 °C Handling Code TR : Tape & Reel Assembly Material G : Halogen and Lead Free Device
SM3316NS QG : SM 3316 XXXXX	XXXXX - Lot Code

Note : SINOPOWER lead-free products contain molding compounds/die attach materials and 100% matte tin plate termination finish; which are fully compliant with RoHS. SINOPOWER lead-free products meet or exceed the lead-free requirements of IPC/JEDEC J-STD-020D for MSL classification at lead-free peak reflow temperature. SINOPOWER defines "Green" to mean lead-free (RoHS compliant) and halogen free (Br or Cl does not exceed 900ppm by weight in homogeneous material and total of Br and Cl does not exceed 1500ppm by weight).

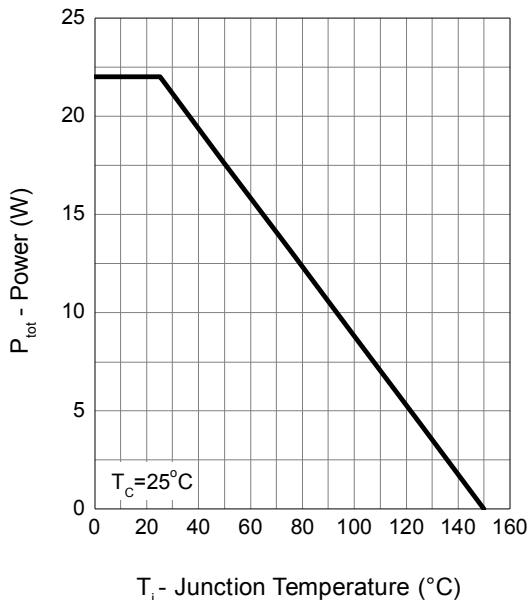
SINOPOWER reserves the right to make changes to improve reliability or manufacturability without notice, and advise customers to obtain the latest version of relevant information to verify before placing orders.

Typical Operating Characteristics

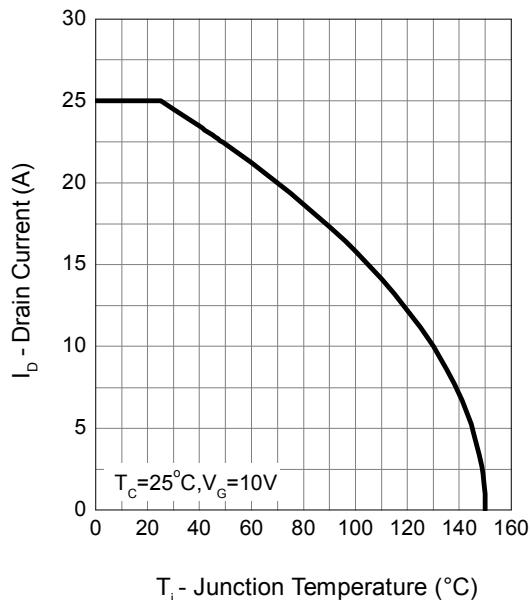
Power Dissipation**Drain Current****Safe Operation Area****Thermal Transient Impedance**

Typical Operating Characteristics (Cont.)

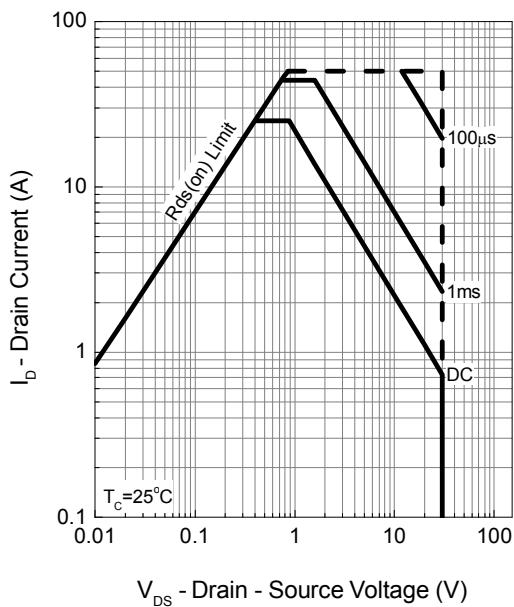
Power Dissipation



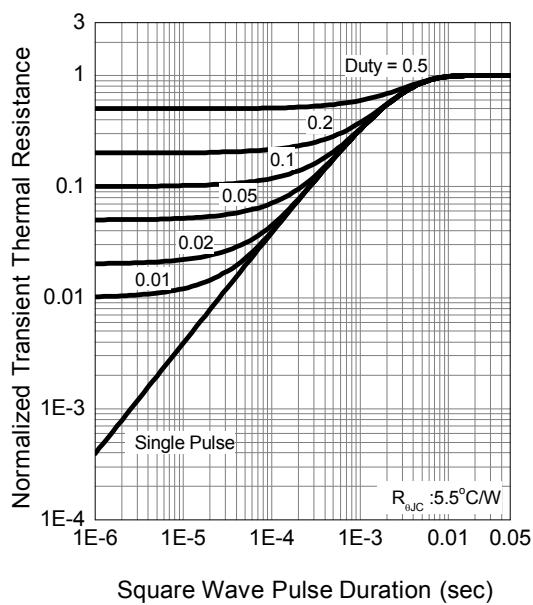
Drain Current



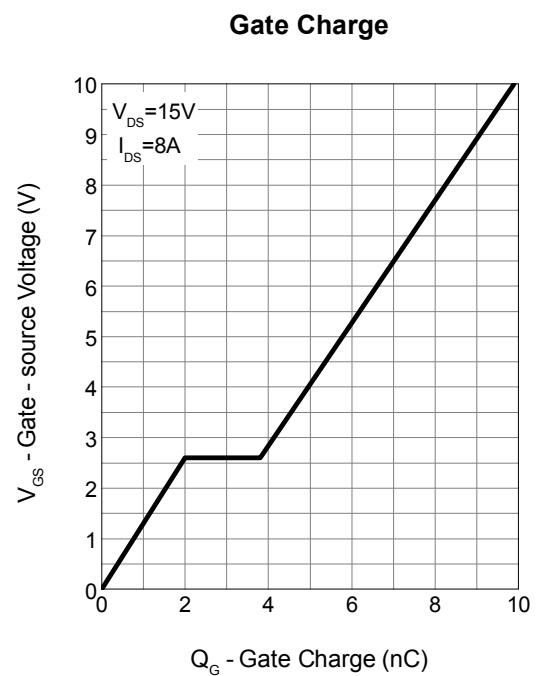
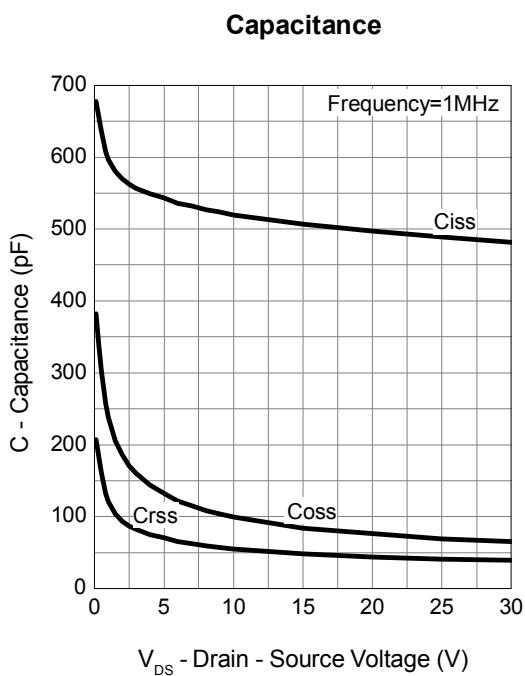
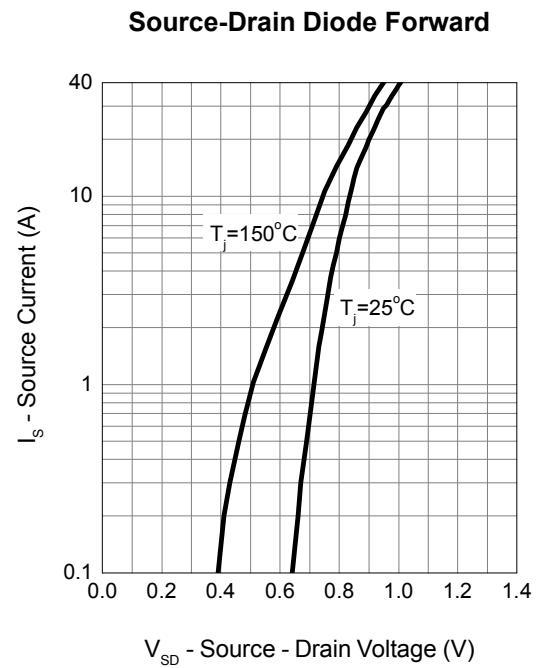
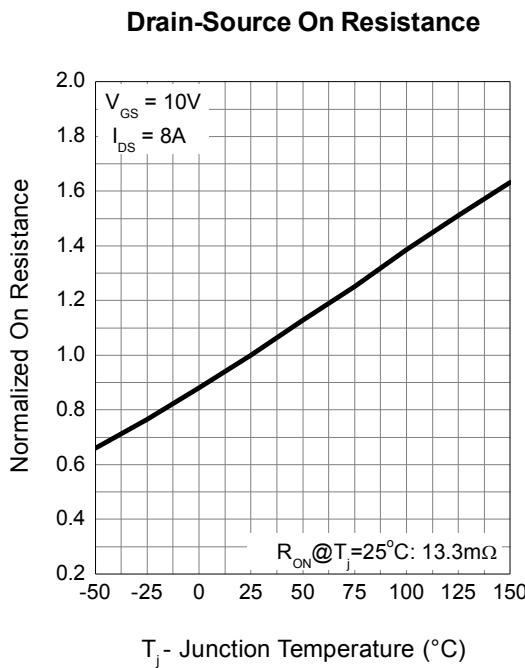
Safe Operation Area



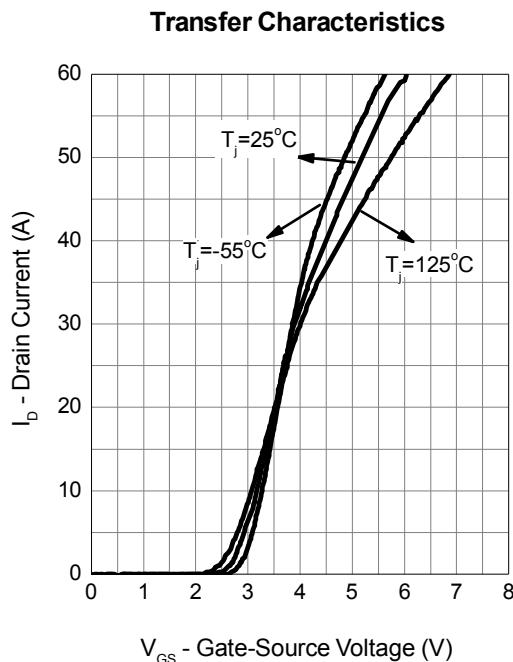
Thermal Transient Impedance



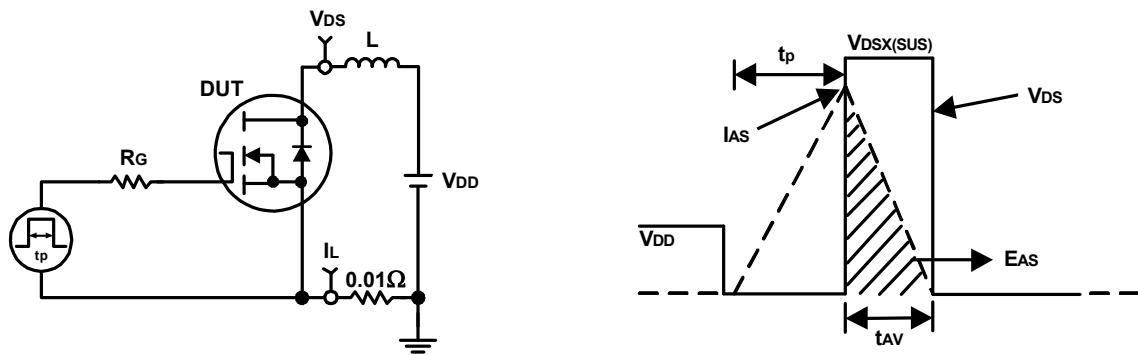
Typical Operating Characteristics (Cont.)



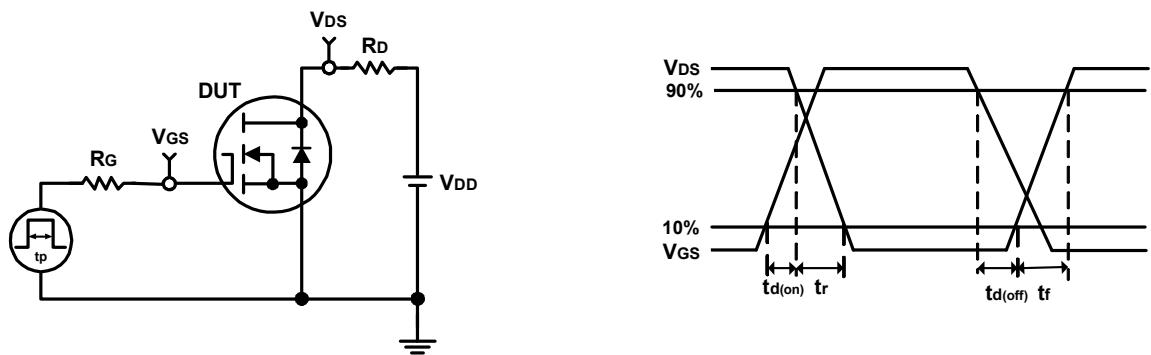
Typical Operating Characteristics (Cont.)



Avalanche Test Circuit and Waveforms



Switching Time Test Circuit and Waveforms



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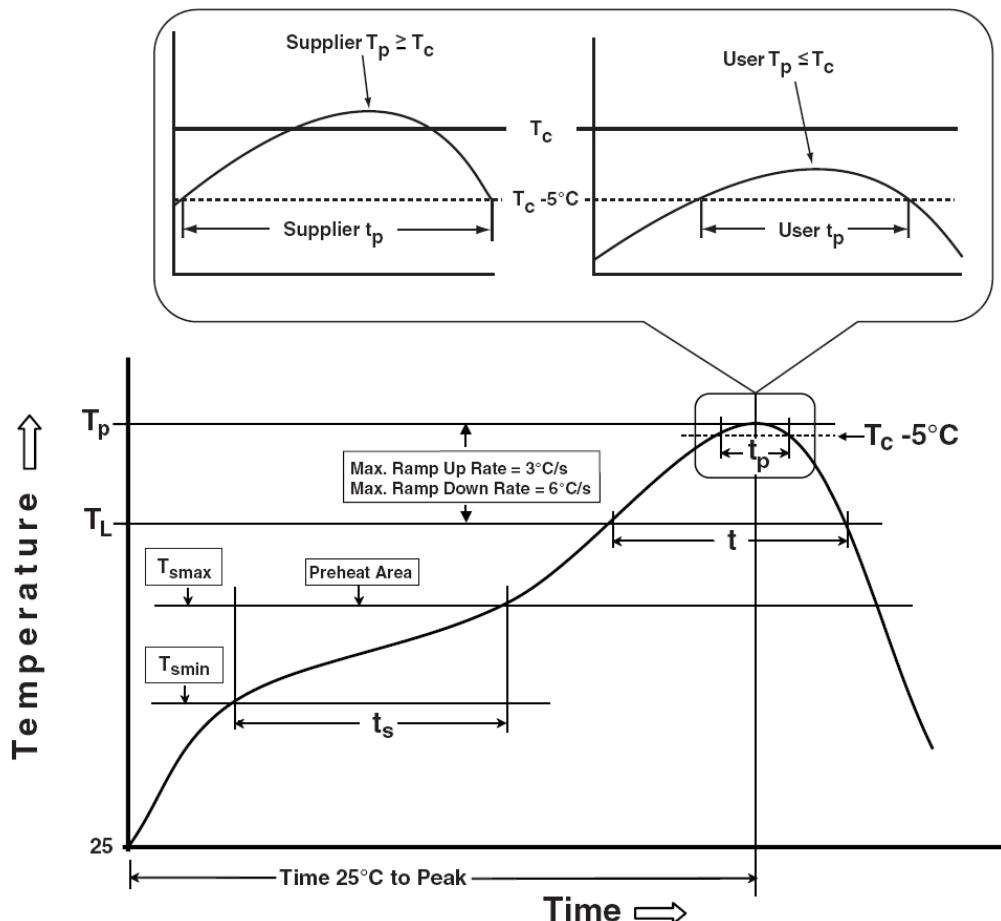
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[TK31J60W5,S1VQ\(O\)](#) [2SK2614\(TE16L1,Q\)](#) [DMN1017UCP3-7](#) [EFC2J004NUZTDG](#) [FCAB21350L1](#) [P85W28HP2F-7071](#) [DMN1053UCP4-7](#)
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