

Main Product Characteristics:

V_{DSS}	150V
$R_{DS(on)}$	9m (typ.)
I_D	80A

Features and Benefits:

Description:

AbsoluteMax Rating:

Symbol	Parameter	Max.	Units
$I_D @ T_C = 25^\circ C$	Continuous Drain Current, $V_{GS} @ 10V$	80	A
I_{DM}	Pulsed Drain Current	240	
$P_D @ T_C = 25^\circ C$	Power Dissipation	160	W
V_{DS}	Drain-Source Voltage	150	V
V_{GS}	Gate-to-Source Voltage	± 20	V
E_{AS}	Single Pulse Avalanche Energy @ $L=0.3mH$	80	mJ
$T_J \quad T_{STG}$	Operating Junction and Storage TemperatureRange	-55 to +150	$^\circ C$



SSS1510J7

Thermal Resistance

Symbol	Characterizes	Typ.	Max.	Units
R	Junction-to-case		0.78	/W

Electrical Characterizes @ $T_A=25$ unless otherwise specified

Symbol	Parameter	Min.	Typ.	Max
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Test Circuits and Waveforms

Typical Electrical and Thermal Characteristics

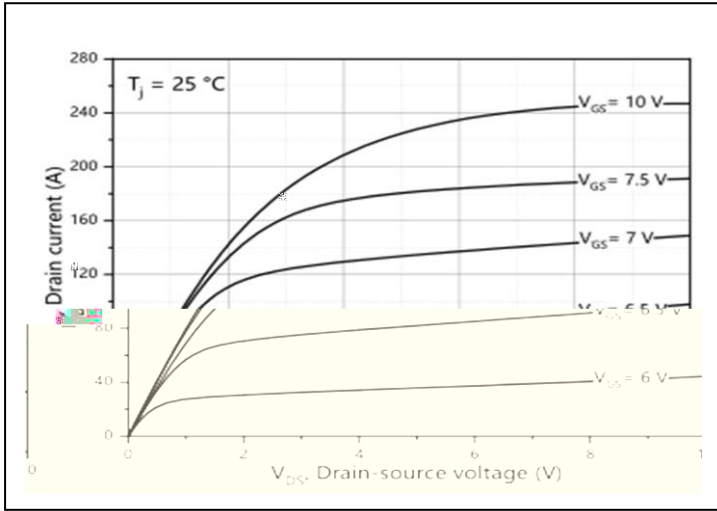


Figure1. Typical Output Characteristics

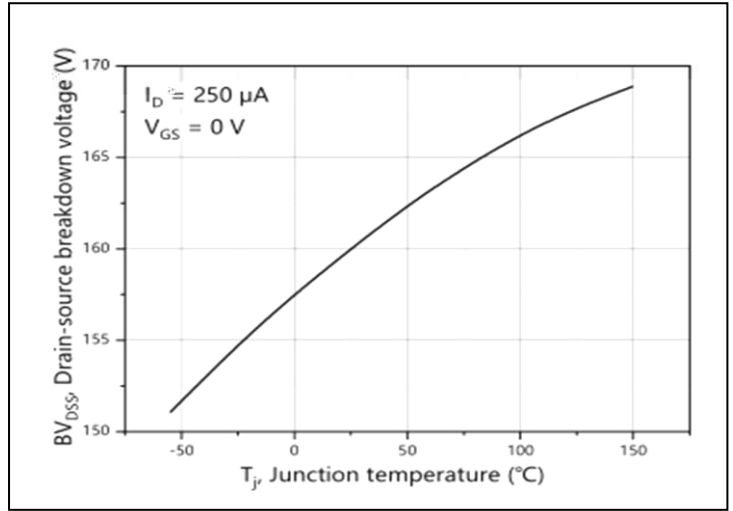


Figure2. Drain-to-Source Breakdown Voltage vs. Temperature

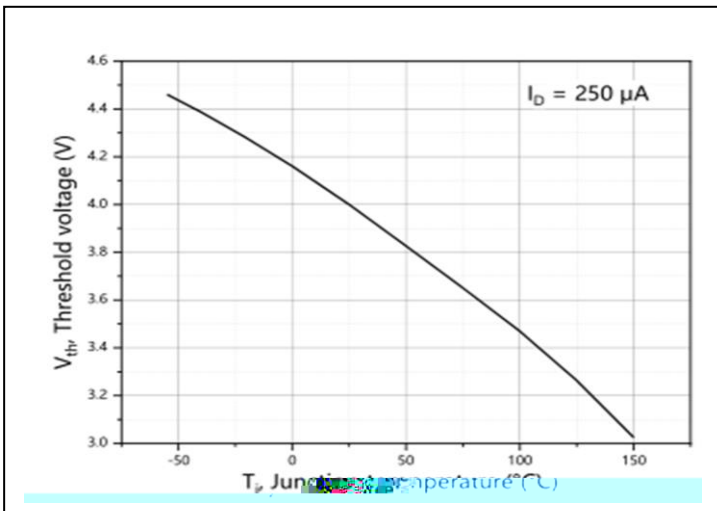


Figure3. Gate to Source Cut-off Voltage

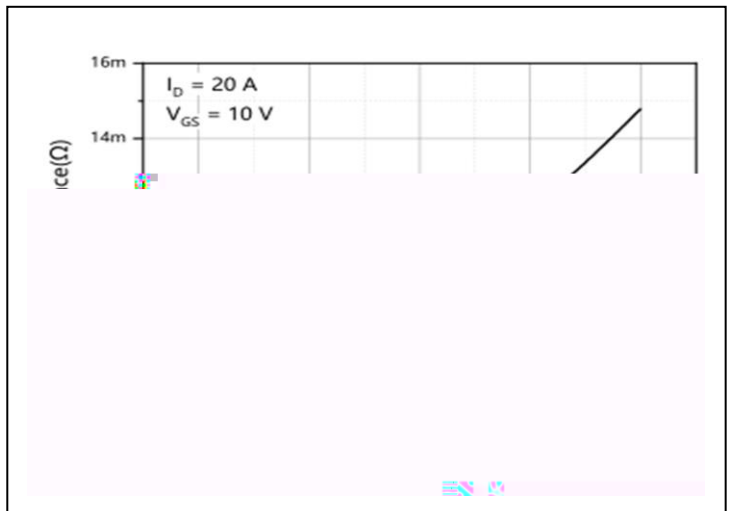


Figure4. Normalized On-Resistance vs. Junction Temperature

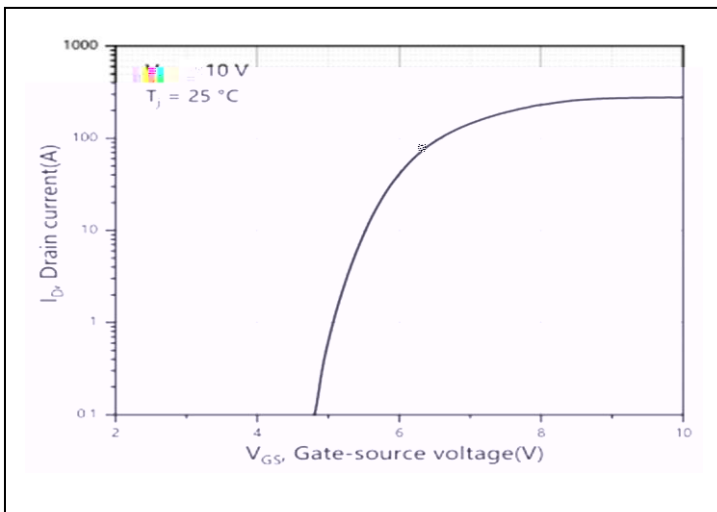


Figure5. Typical Transfer Characteristics

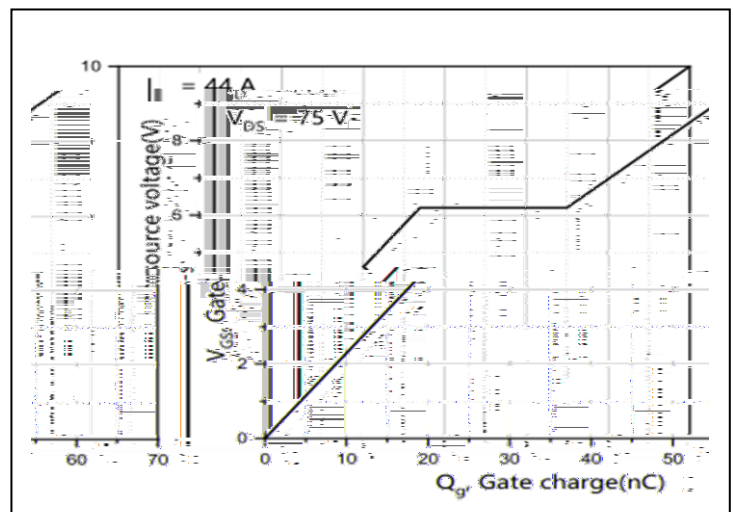


Figure6. Typ. Gate Charge

Typical Electrical and Thermal Characteristics

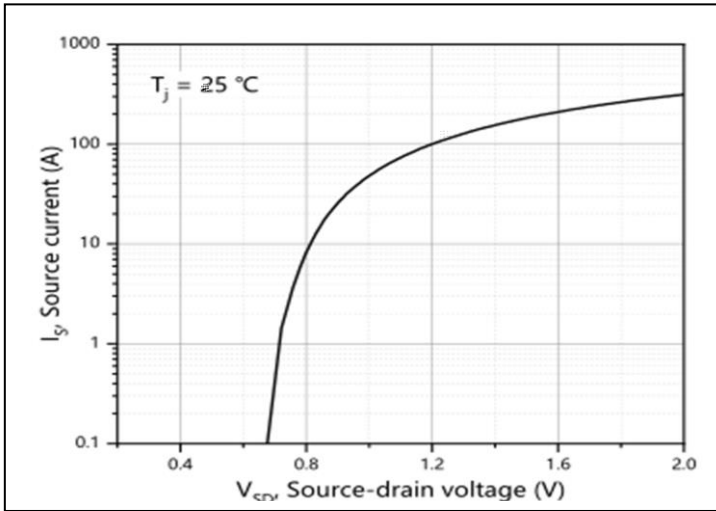


Figure7.Forward Characteristics of Body Diode

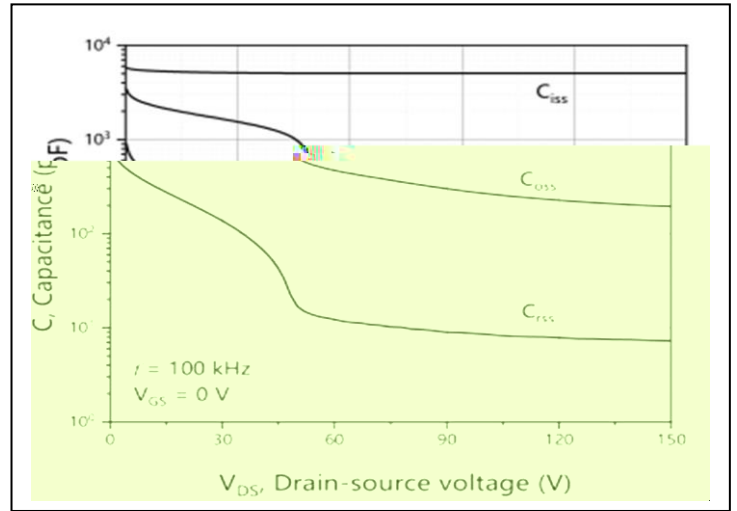


Figure8.Capacitance

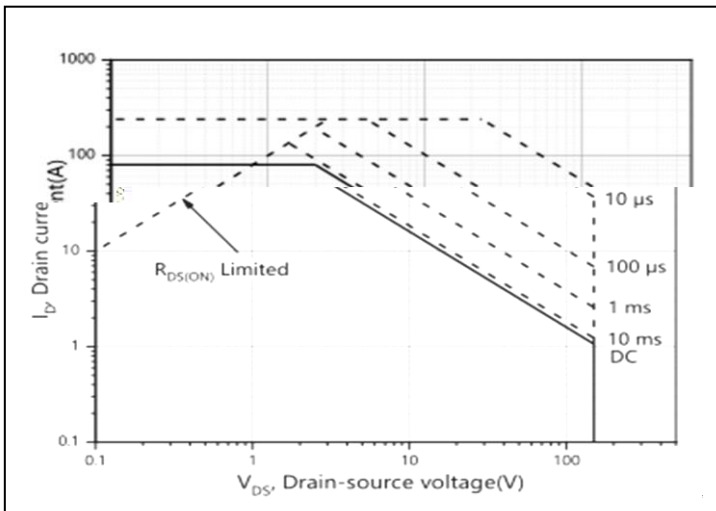


Figure9. Maximum Safe Operating Area

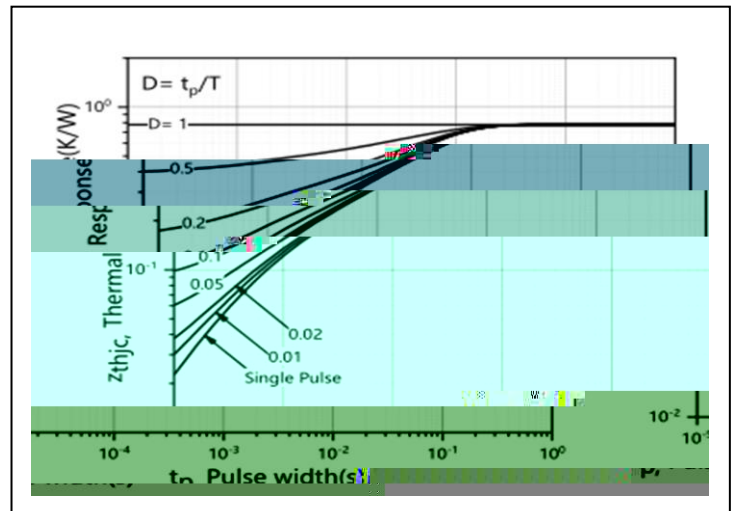
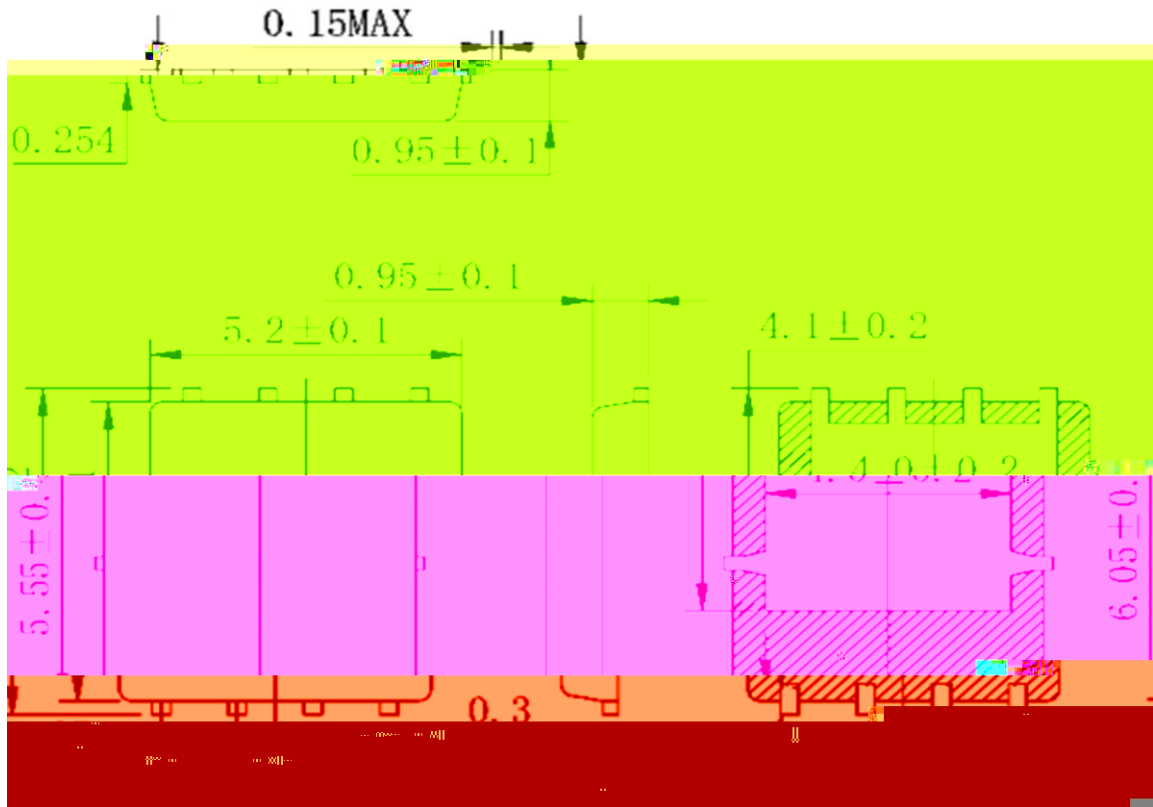


Figure10. Normalized Maximum Transient Thermal

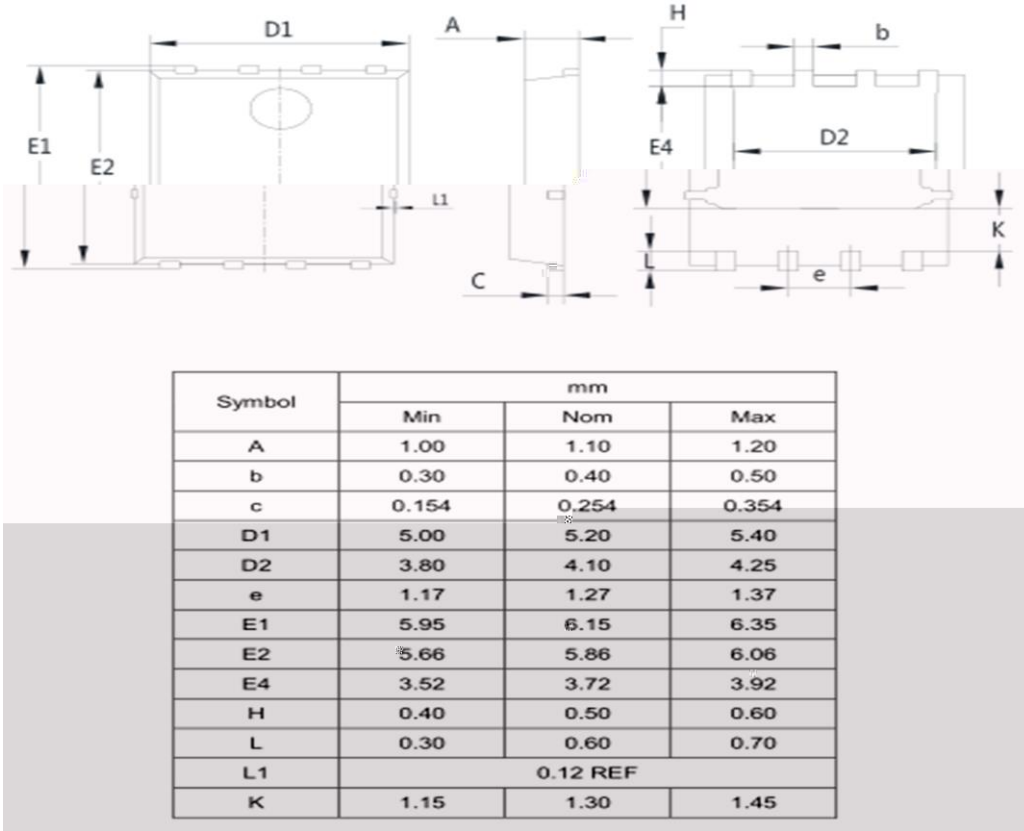


Mechanical Data

Option1



Option2



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