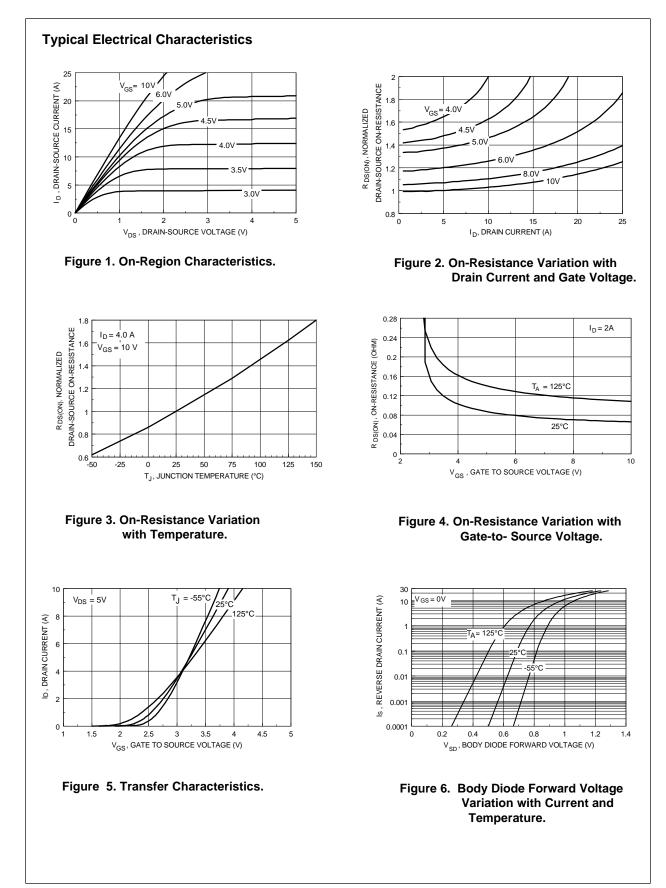


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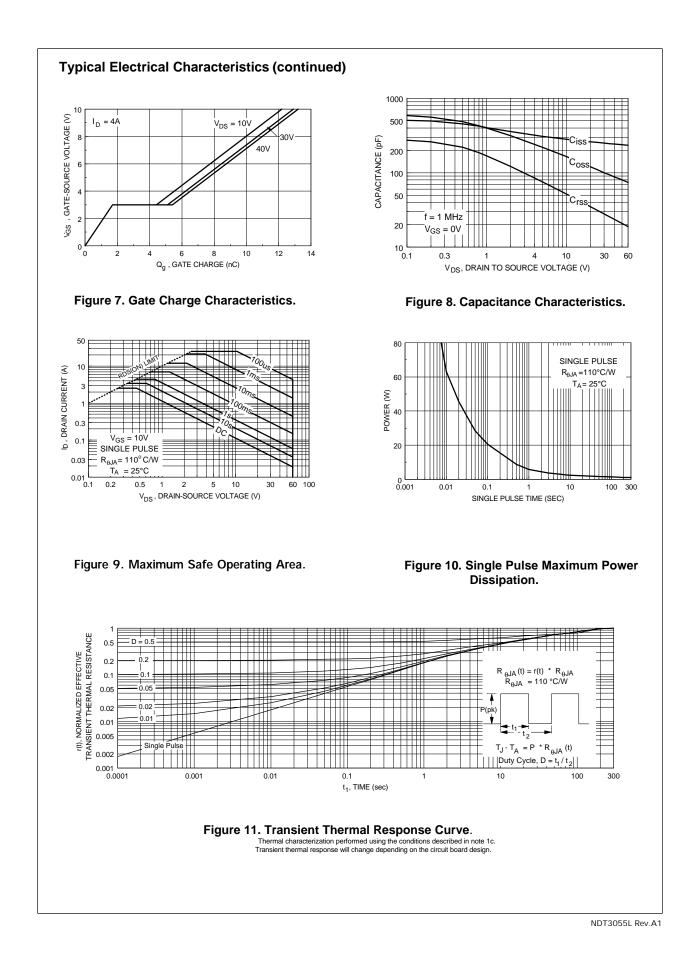
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STICS Source Breakdown Voltage down Voltage Temp. Coefficient date Voltage Drain Current Body Leakage, Forward Body Leakage, Reverse TICS (Note 2) hreshold Voltage	$V_{GS} = 0 \text{ V}, \text{ I}_{D} = 250 \mu\text{A}$ $I_{D} = 250 \mu\text{A}, \text{ Referenced to } 25 ^{\circ}\text{C}$ $V_{DS} = 60 \text{ V}, V_{GS} = 0 \text{ V}$ $T_{J} = 125^{\circ}\text{C}$ $V_{GS} = 20 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = -20 \text{ V}, V_{DS} = 0 \text{ V}$	60	55	1 50 100	V mV/°C μΑ μΑ nA
lown Voltage Temp. Coefficient iate Voltage Drain Current Body Leakage, Forward Body Leakage, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{Referenced to } 25 \ ^{\circ}\text{C}$ $V_{DS} = 60 \ \text{V}, \ \text{V}_{GS} = 0 \ \text{V}$ $T_{J} = 125 \ ^{\circ}\text{C}$ $V_{GS} = 20 \ \text{V}, \ \text{V}_{DS} = 0 \ \text{V}$	60	55	50 100	mV/°C μΑ μΑ
Body Leakage, Forward Body Leakage, Reverse	$I_{D} = 250 \ \mu\text{A}, \text{Referenced to } 25 \ ^{\circ}\text{C}$ $V_{DS} = 60 \ \text{V}, \ \text{V}_{GS} = 0 \ \text{V}$ $T_{J} = 125 \ ^{\circ}\text{C}$ $V_{GS} = 20 \ \text{V}, \ \text{V}_{DS} = 0 \ \text{V}$		55	50 100	μΑ μΑ
Body Leakage, Forward Body Leakage, Reverse	$V_{DS} = 60 \text{ V}, V_{GS} = 0 \text{ V}$ $T_{J} = 125^{\circ}\text{C}$ $V_{GS} = 20 \text{ V}, V_{DS} = 0 \text{ V}$			50 100	μA
Body Leakage, Forward Body Leakage, Reverse	$T_{J} = 125^{\circ}C$ $V_{GS} = 20 \text{ V}, \text{ V}_{DS} = 0 \text{ V}$			100	μA
Body Leakage, Reverse	$V_{GS} = 20 \text{ V}, \text{ V}_{DS} = 0 \text{ V}$				
Body Leakage, Reverse				100	
		1		-100	nA
hreshold Voltage			1		
	$V_{DS} = V_{GS}, I_{D} = 250 \mu\text{A}$	1	1.6	2	V
hreshold Voltage Temp. Coefficient	$I_p = 250 \ \mu$ A, Referenced to 25 °C		-4		mV /°C
Drain-Source On-Resistance	$V_{GS} = 10 \text{ V}, \text{ I}_{D} = 4 \text{ A}$		0.07	0.1	Ω
			0.125	0.18	1
	3		0.103	0.12	
ate Drain Current		10			А
d Transconductance			7		S
TERISTICS		1			
Capacitance	$V_{DS} = 25, V_{GS} = 0 V,$		345		pF
Capacitance	f = 1.0 MHz	110		pF	
e Transfer Capacitance			30		pF
CTERISTICS (Note 2)			11		
On Delay Time	$V_{DD} = 25, I_{D} = 1 A,$		5	20	ns
On Rise Time	$V_{GS} = 10 V, R_{GEN} = 6 \Omega$		7.5	20	ns
Off Delay Time			20	50	ns
Off Fall Time			7	20	ns
ate Charge	$V_{\rm DS} = 40 \text{ V}, \ \text{I}_{\rm D} = 4 \text{ A},$		13	20	nC
ource Charge	$V_{GS} = 10 V$		1.7		nC
)rain Charge			3.2		nC
DE CHARACTERISTICS AND MAXIN	IUM RATINGS				
Maximum Continuous Drain-Source Diode Forward Current				2.5	А
Source Diode Forward Voltage	$V_{GS} = 0 \text{ V}, \ I_{S} = 2.5 \text{ A}$ (Note 2)		0.8	1.2	V
	ate Drain Current rd Transconductance TERISTICS Capacitance capacitance se Transfer Capacitance CTERISTICS (Note 2) On Delay Time On Rise Time Off Delay Time Off Fall Time Con Fise Time Off Fall Time Cource Charge Cource Charge Del CHARACTERISTICS AND MAXIM um Continuous Drain-Source Diode For Source Diode Forward Voltage	T_j=125°C $V_{GS} = 4.5 \text{ V}, I_D = 3.7 \text{ A}$ ate Drain Current $V_{GS} = 5, V_{DS} = 10 \text{ V}$ rd Transconductance $V_{DS} = 5 \text{ V}, I_D = 4 \text{ A}$ TERISTICS Capacitance $V_{DS} = 25, V_{GS} = 0 \text{ V}, f = 1.0 \text{ MHz}$ Capacitance Capacitance Capacitance Capacitance Capacitance On Delay Time On Delay Time On Set Time Off Delay Time Off Fall Time On Charge Orain Charge Orain Charge Orain Charge DE CHARACTERISTICS AND MAXIMUM RATINGS um Continuous Drain-Source Diode Forward Current Source Diode Forward Voltage V _{GS} = 0 V, I _S = 2.5 A (Note 2)	Image: constraint of the second state of the second st	TT125°C0.125 $V_{GS} = 4.5 \text{ V}, I_D = 3.7 \text{ A}0.103ate Drain CurrentV_{GS} = 5, V_{DS} = 10 \text{ V}10rd TransconductanceV_{DS} = 5 \text{ V}, I_D = 4 \text{ A}7TERISTICSCapacitanceV_{DS} = 25, V_{GS} = 0 \text{ V}, I_D = 4 \text{ A}345CapacitanceI = 1.0 \text{ MHz}110erransfer CapacitanceOn Delay TimeV_{DD} = 25, I_D = 1 \text{ A}, V_{GS} = 10 \text{ V}, R_{GEN} = 6 \OmegaOn Delay TimeV_{DS} = 40 \text{ V}, I_D = 4 \text{ A}, V_{GS} = 10 \text{ V}, R_{GEN} = 6 \OmegaOff Delay Time7.5Off Fall Time7Source ChargeV_{OS} = 40 \text{ V}, I_D = 4 \text{ A}, V_{GS} = 10 \text{ V}1.7Orain Charge7.5ODE CHARACTERISTICS AND MAXIMUM RATINGSum Continuous Drain-Source Diode Forward CurrentSource Diode Forward CurrentSource Diode Forward VoltageV_{GS} = 0 \text{ V}, I_S = 2.5 \text{ A} (Note 2)0.8$	$\begin{tabular}{ c c c c c c } \hline $I_{J}=125^{\circ}C$ & 0.125 & 0.18$ \\ \hline $V_{GS}=4.5 \ V, \ I_{D}=3.7 \ A$ & 0.103 & 0.12$ \\ \hline $V_{GS}=5, \ V_{DS}=10 \ V$ & 10$ \\ \hline $I_{C}=100 \ V_{DS}=5, \ V_{DS}=10 \ V$ & 10$ \\ \hline $I_{C}=100 \ V_{DS}=5, \ V_{DS}=0 \ V, \ I_{D}=4 \ A$ & 7$ \\ \hline $I_{C}=100 \ Hz$ & 110$ \\ \hline $I_{C}=100 \ V_{DS}=25, \ I_{D}=1 \ A, \ V_{DS}=10 \ V, \ R_{GEN}=6 \ \Omega$ & 7.5 \ 20$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V, \ R_{GEN}=6 \ \Omega$ & 7.5 \ 20$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V, \ R_{SS}=10 \ V$ & 1.7$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V$ & 1.7$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V$ & 1.7$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V$ & 1.7$ \\ \hline $I_{C}=100 \ V_{SS}=10 \ V$ & 1.7$ \\ \hline $I_{C}=100 \ V$ & 1.7$$

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