SOT-23 P MOS
- CHANNEL MOSFET in a SOT-23 Plastic Package.

Power Management in Notebook computer, Portable Equipment and Battery powered systems.

MOS**Equivalent Circuit**

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	-16	V
Gate-Source Voltage	V_{GSS}	±12	V
Continuous Drain Current	I_D	-5.0	A
Pulsed Drain Current	I_{DM}	-20	A
Power Dissipation for Single Operation	P_D	0.7	W
Maximum Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	179	/W

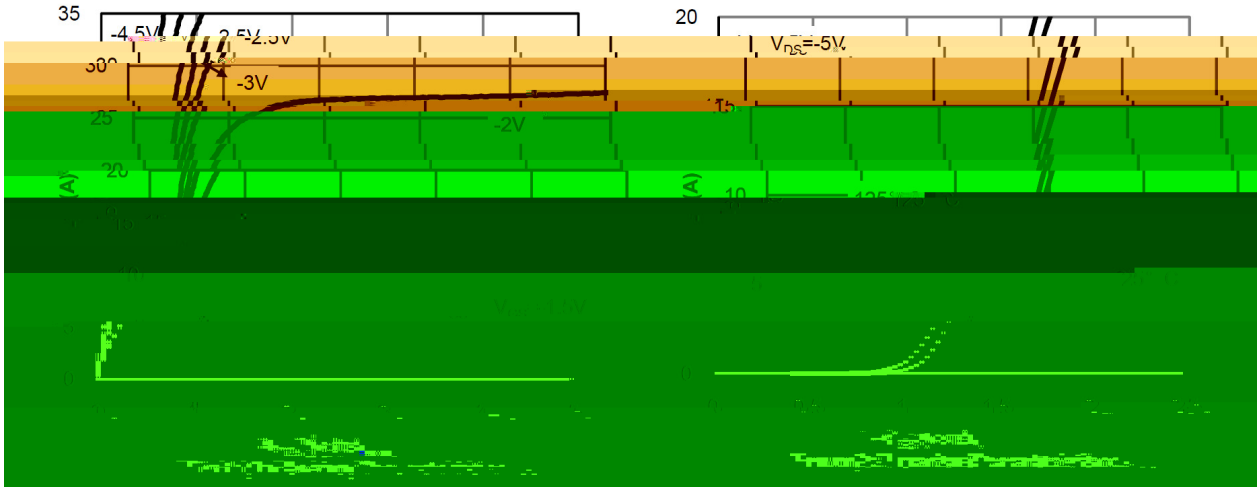
/ Electrical Characteristics(Ta=25)

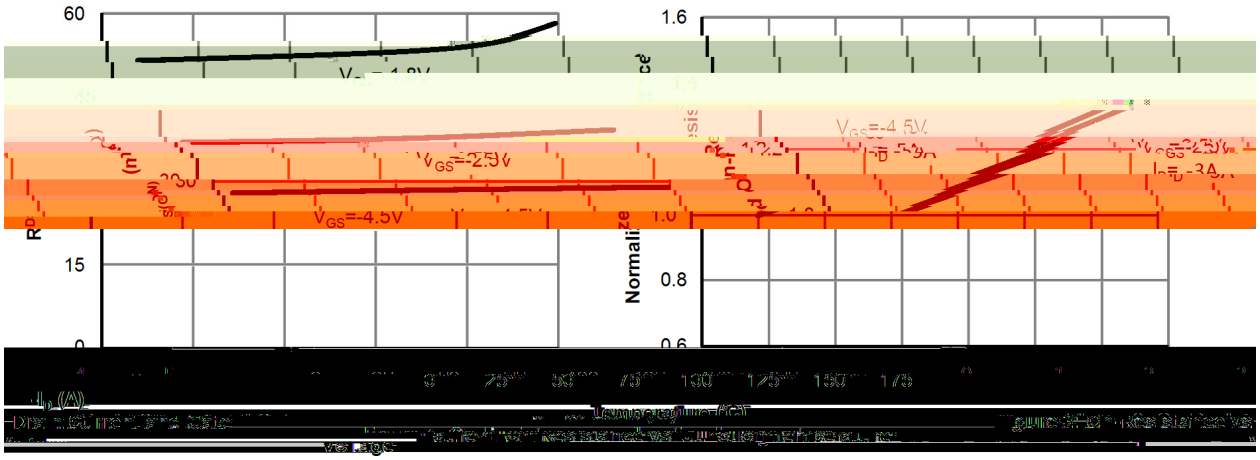
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	I_D=-250μA V_{GS}=0V	-16	-17.8		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=-15V V_{GS}=0V			-1.0	μA
Gate-Body leakage current	I_{GSS}	V_{DS}=0V V_{GS}=±12V			±100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=-250μA	-0.4	-0.62	-1.0	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	V_{GS}=-4.5V I_D=-5A		28.5	35	m
		V_{GS}=-2.5V I_D=-3A		38.8	55	
		V_{GS}=-1.8V I_D=-1A		54		
Diode Forward Voltage	V_{SD}	I_S=-1A V_{GS}=0V			-1.2	V
Reverse Recovery Time	t_{rr}	V_{DS}=-10V, I_D=-4A dI_{SD}/dt = 100 A/μs		18.7		ns
Reverse Recovery Charge	Q_{rr}			4		nC
Gate resistance	Rg	V_{GS}=0V, V_{DS}=0V, f=1MHz		8.5		
Input Capacitance	C_{iss}	V_{GS}=0V V_{DS}=-15V f=1MHz		495		pF
Output Capacitance	C_{oss}			100		
Reverse Transfer Capacitance	C_{rss}			80		

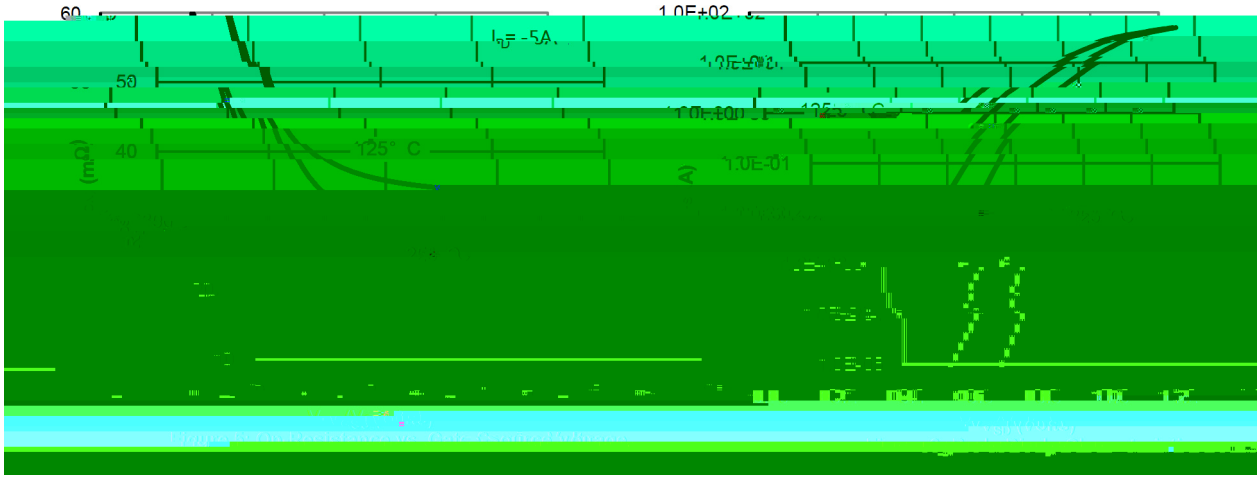
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Gate Charge	Q_g	V_{GS}=-4.5V, V_{DS}=-10V, RL=2.5Ω		5.7		nC
Gate Source Charge	Q_{gs}			0.3		
Gate Drain Charge	Q_{gd}			1.9		
Turn–On Delay Time	$t_{d(on)}$	V_{GS}=-4.5V V_{DS}=-10V RL=2.5Ω R_g=3Ω		8.3		ns
Turn–On Rise Time	t_r			32.3		
Turn–Off Delay Time	$t_{d(off)}$			38.2		
Turn–Off Fall Time	t_f			49.4		

/ Electrical Characteristic Curve







/ Electrical Characteristic Curve

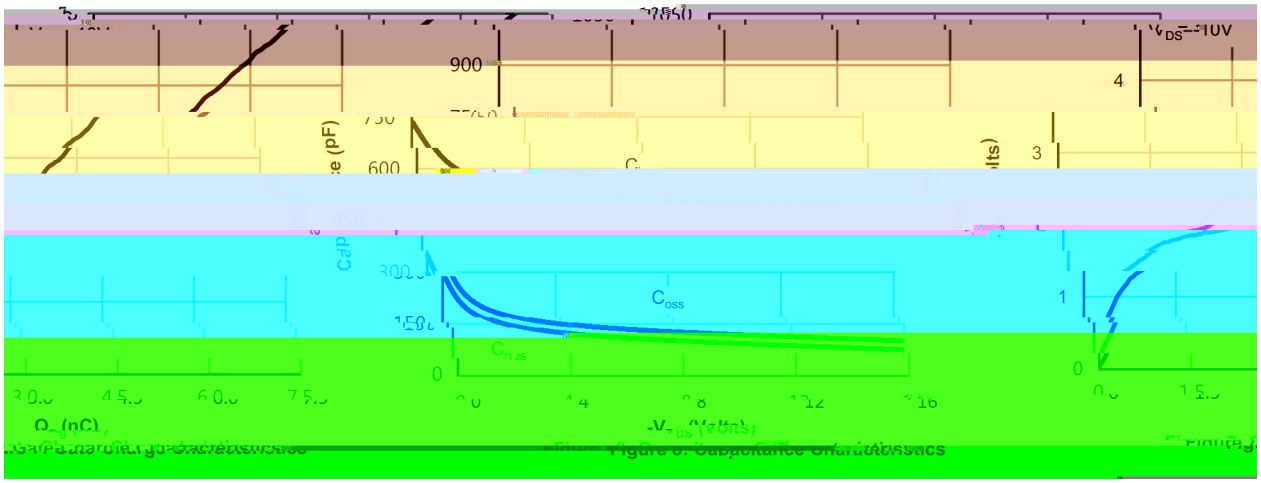
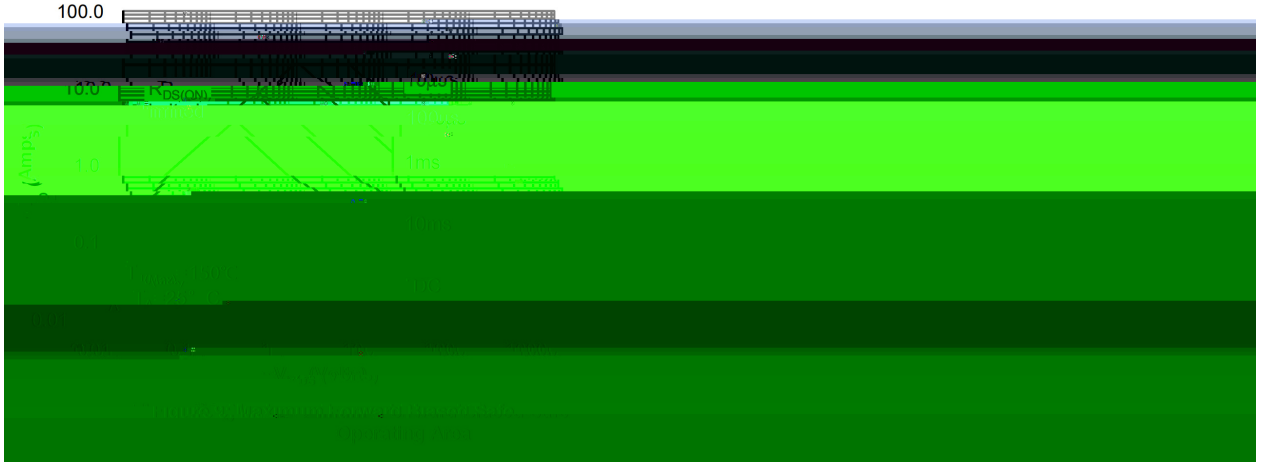
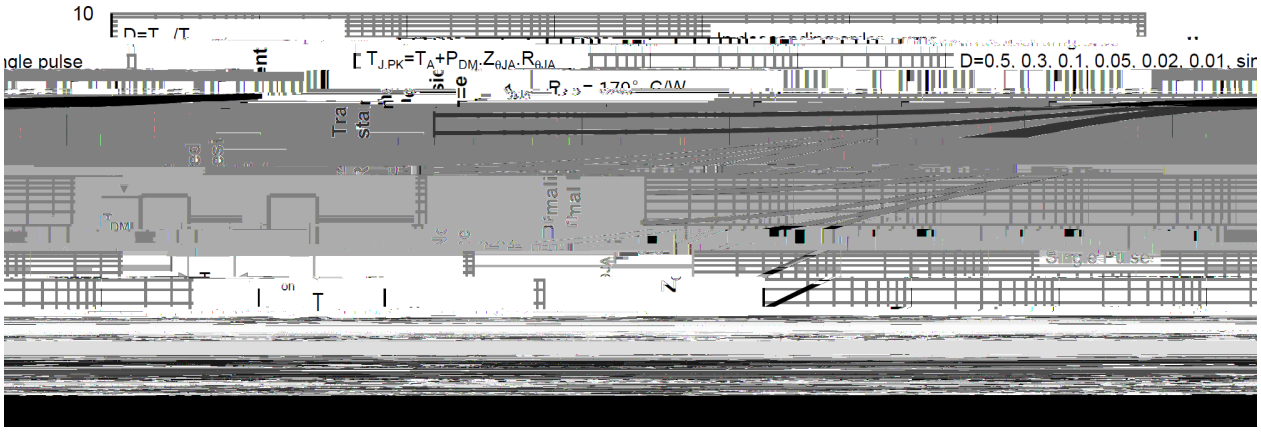
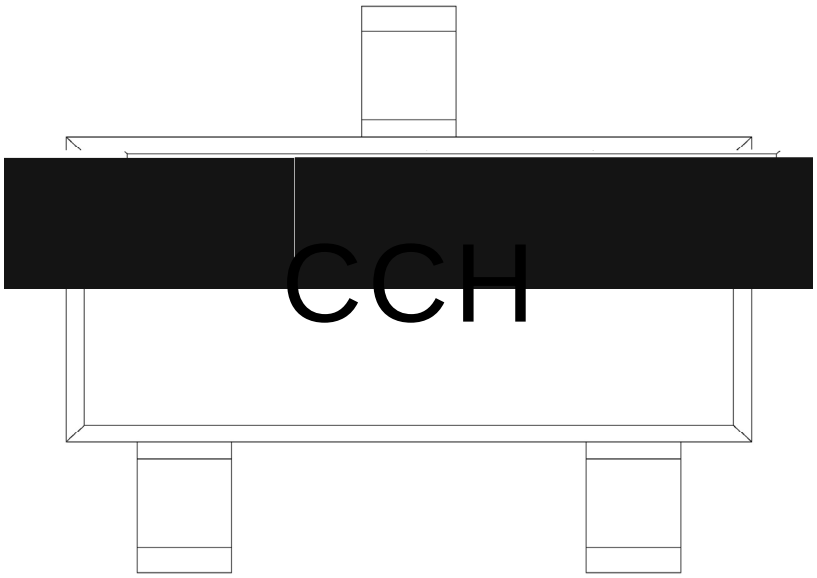


Figure 6. Capacitance Characteristics





/ Marking Instructions



H

CC

Note:

H: Company Code

CC: Product Type Code

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