
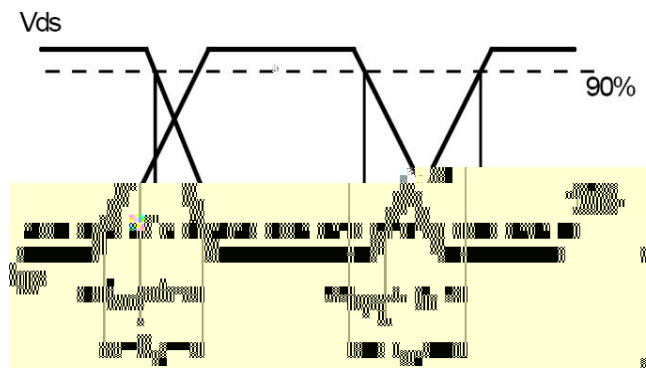
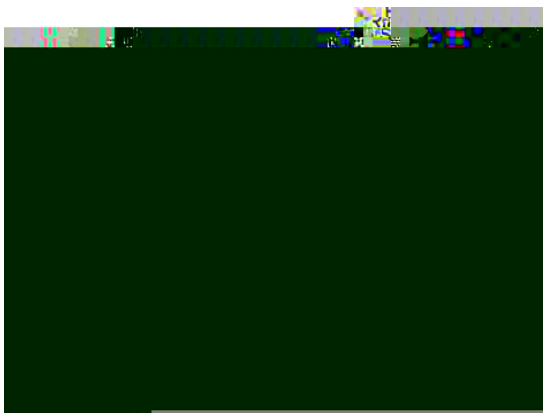
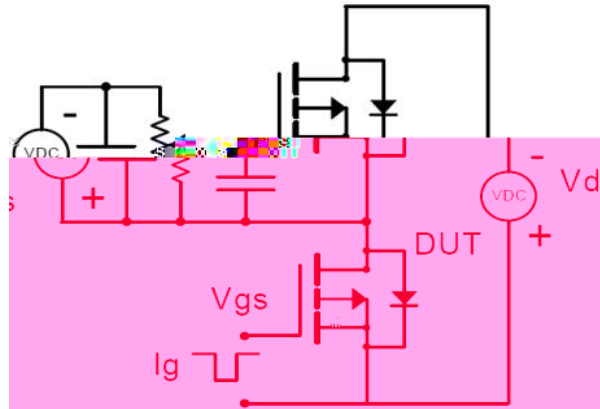
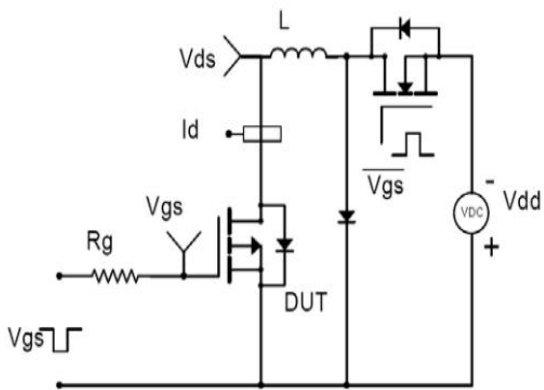


$R_{\theta JA}$	Junction-to-Ambient	—	100	$^{\circ}\text{C/W}$
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@ $T_A=25^{\circ}\text{C}$ unless otherwise specified

$V_{(BR)DSS}$	Drain-to-Source breakdown voltage	-12	—	—	V	$V_{GS} = 0\text{V}, I_D = -250\mu\text{A}$
$R_{DS(on)}$	Static Drain-to-Source on-resistance	—	33	50	$\text{m}\Omega$	$V_{GS} = -4.5\text{V}, I_D = -4.4\text{A}$
		—	48	85	$\text{m}\Omega$	$V_{GS} = -2.5\text{V}, I_D = -3.8\text{A}$
$V_{GS(th)}$	Gate threshold voltage	-0.4	—	-1	V	$V_{DS} = V_{GS}, I_D = -250\mu\text{A}$
I_{DSS}	Drain-to-Source leakage current	—	—	-1	μA	$V_{DS} = -12\text{V}, V_{GS} = 0\text{V}$
I_{GSS}	Gate-to-Source forward leakage	—	—	100	nA	$V_{GS} = 8\text{V}$
		—	—	-100		$V_{GS} = -8\text{V}$
Q_g	Total gate charge	—	12	—	nC	$I_D = -3.5\text{A},$ $V_{DS} = -8\text{V},$ $V_{GS} = -4.5\text{V}$
Q_{gs}	Gate-to-Source charge	—	1.5	—		
Q_{gd}	Gate-to-Drain("Miller") charge	—	3	—		
$t_{d(on)}$	Turn-on delay time	—	11.3	—	ns	$V_{GS} = -10\text{V}, V_{DD} = -10\text{V},$ $R_{GEN} = 3\Omega$ $I_D = -1.0\text{A}$
t_r	Rise time	—	18.1	—		
$t_{d(off)}$	Turn-Off delay time	—	32.4	—		
t_f	Fall time	—	38.1	—		
C_{iss}	Input capacitance	—	638	—	pF	$V_{GS} = 0\text{V}$ $V_{DS} = -12\text{V}$ $f = 1\text{MHz}$
C_{oss}	Output capacitance	—	238	—		
C_{rss}	Reverse transfer capacitance	—	221	—		

I_S	Continuous Source Current (Body Diode)	—	—	-3.5	A	MOSFET symbol showing the integral reverse p-n junction diode. 
I_{SM}	Pulsed Source Current (Body Diode)	—	—	-14	A	
V_{SD}	Diode Forward Voltage	—	-0.8	-1.2	V	

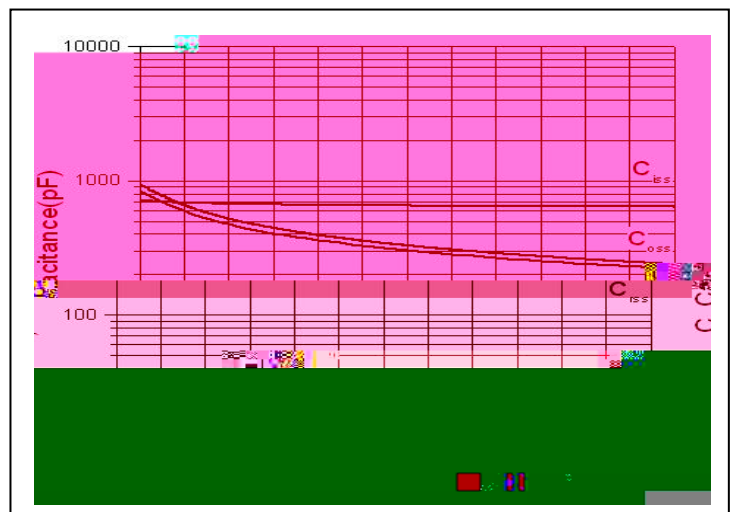
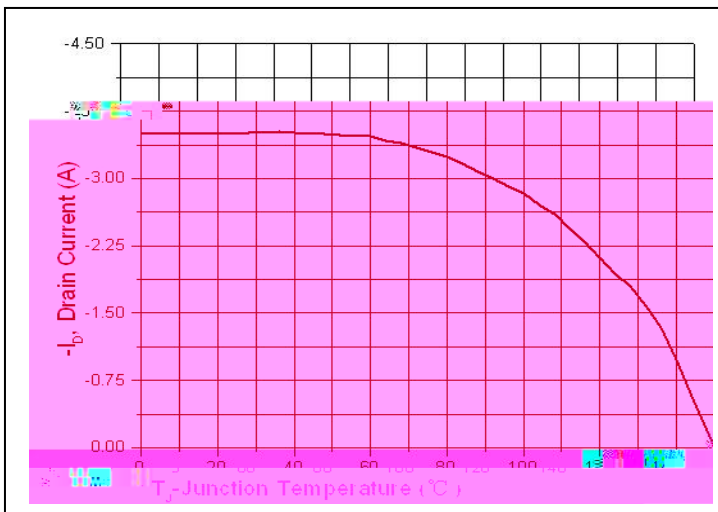
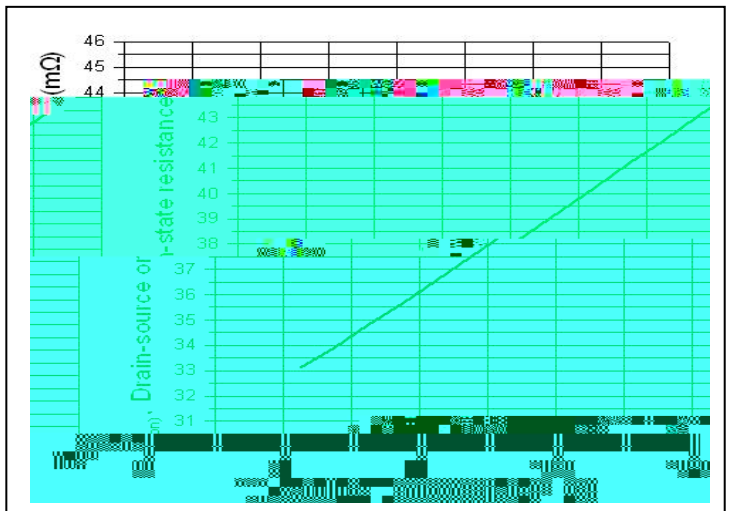
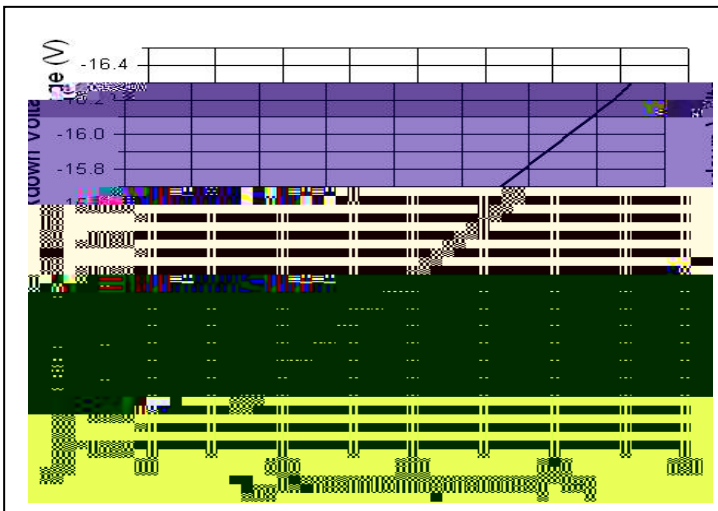
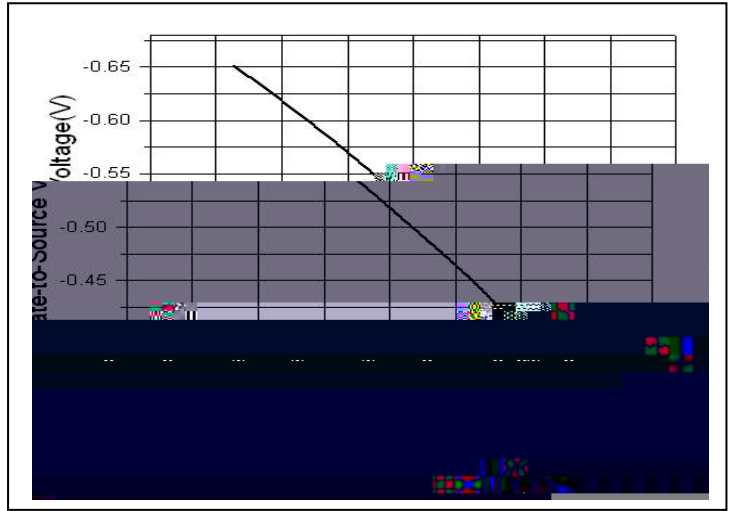


Calculated continuous current based on maximum allowable junction temperature.

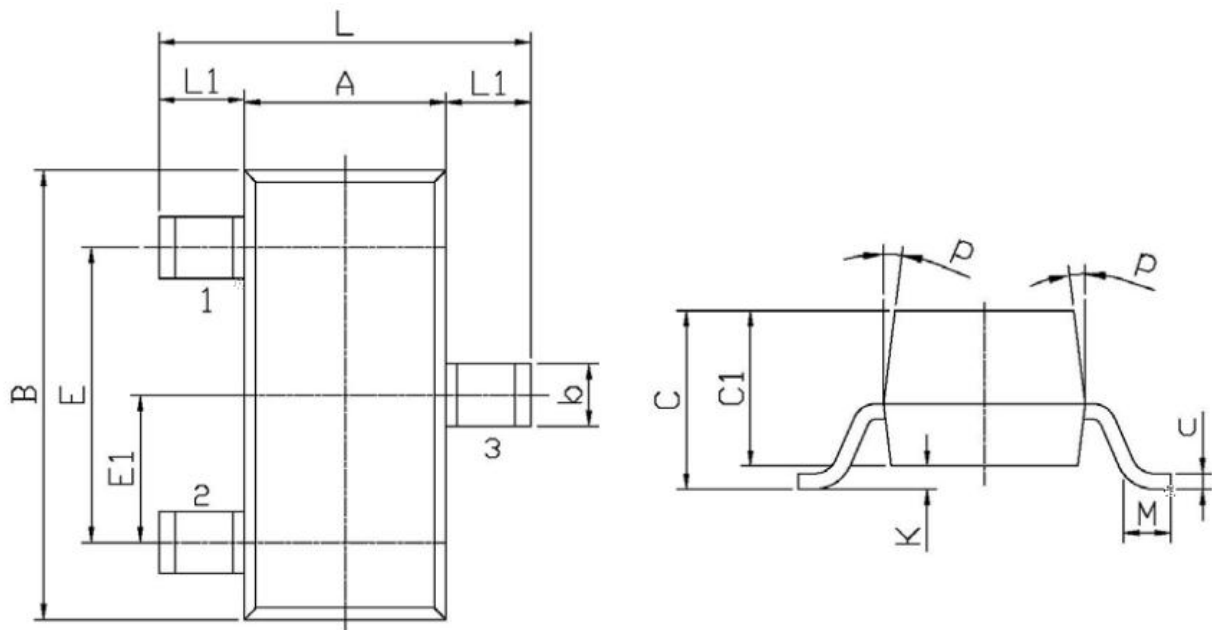
Repetitive rating; pulse width limited by max. junction temperature.

The power dissipation P_D is based on max. junction temperature, using junction-to-case thermal resistance.

The value of $R_{\theta JA}$ is measured with the device mounted on 1 in 2 FR-4 board with 2oz. Copper, in a still air environment with $T_A = 25^\circ\text{C}$







Symbol	Dimensions in Millimeter		Symbol	Dimensions in Millimeter	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30 Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	c	0.05	0.20
B	2.70	3.10	K	0	0.10
E	1.70	2.10	M	0.20 Min	
E1	0.85	1.05	P	7°	
b	0.35	0.55			



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