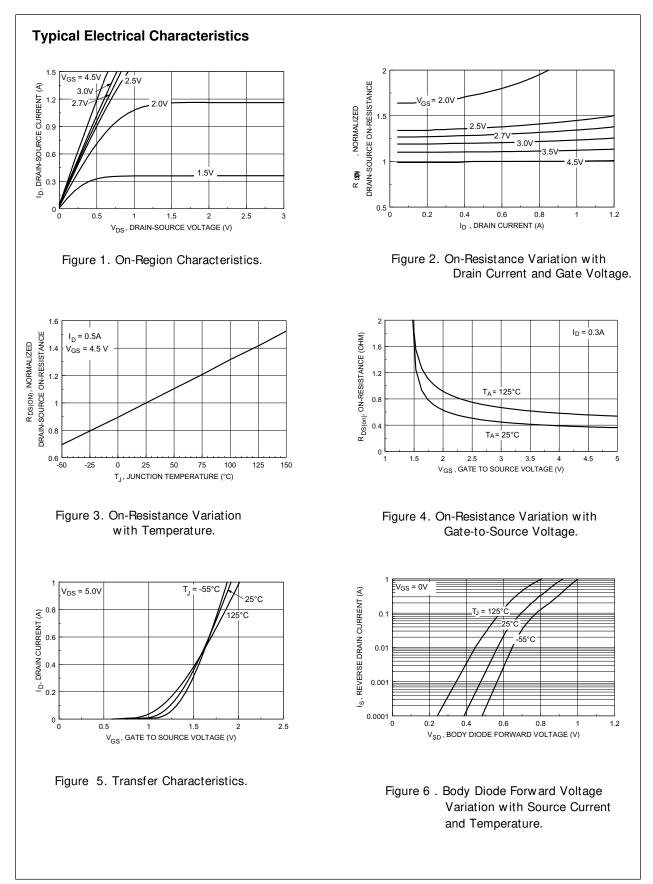


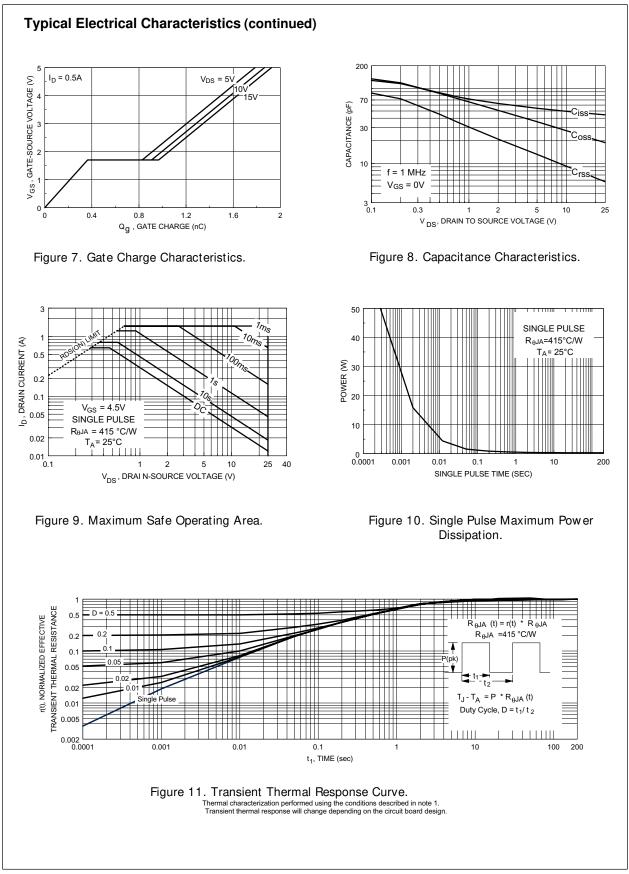
Symbol	Parameter	Conditions	Min	Тур	Max	Units
OFF CHAR	ACTERISTICS					•
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	$V_{GS} = 0 V$ , $I_{D} = 250 \mu A$				V
$\Delta BV_{DSS}/\Delta T_{J}$	Breakdown Voltage Temp. Coefficient	$I_D = 250 \ \mu$ A, Referenced to $25^{\circ}$ C		26		mV/°C
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	$V_{DS} = 20 V, V_{GS} = 0 V$			1	μA
		T <sub>J</sub> = 55°C			10	μA
I <sub>GSS</sub>	Gate - Body Leakage Current	V <sub>GS</sub> = 8 V, V <sub>DS</sub> = 0 V			100	nA
ON CHARAC	CTERISTICS (Note 2)					•
V <sub>GS(th)</sub>	Gate Threshold Voltage	$V_{DS} = V_{GS}, I_{D} = 250 \mu\text{A}$	0.65	0.8	1.5	V
$\Delta V_{GS(th)} / \Delta T_J$	Gate Threshold Voltage Temp.Coefficient	$I_D = 250 \ \mu$ A, Referenced to $25^{\circ}$ C		-2.6		mV/°C
R <sub>DS(ON)</sub>	Static Drain-Source On-Resistance	$V_{GS} = 4.5 V, I_{D} = 0.5 A$		0.34	0.45	Ω
		T <sub>J</sub> =125°C		0.55	0.77	
		$V_{GS} = 2.7 \text{ V}, I_{D} = 0.2 \text{ A}$		0.44	0.6	
I <sub>D(ON)</sub>	On-State Drain Current	V <sub>GS</sub> = 2.7 V, V <sub>DS</sub> = 5 V	0.5			А
9 <sub>FS</sub>	Forward Transconductance	$V_{DS} = 5 V, I_{D} = 0.5 A$		1.45		S
DYNAMIC CI	HARACTERISTICS					
C <sub>iss</sub>	Input Capacitance	$V_{DS} = 10 \text{ V}, V_{GS} = 0 \text{ V},$ f = 1.0 MHz		50		pF
C <sub>oss</sub>	Output Capacitance	f = 1.0 MHz		28		pF
C <sub>rss</sub>	Reverse Transfer Capacitance			9		pF
SWITCHING	CHARACTERISTICS (Note 2)					
t <sub>D(on)</sub>	Turn - On Delay Time	$V_{DD} = 5 V, I_{D} = 0.5 A,$		3	6	ns
ţ	Turn - On Rise Time	$V_{\rm GS}$ = 4.5 V, R <sub>GEN</sub> = 50 $\Omega$		8.5	18	ns
t <sub>D(off)</sub>	Turn - Off Delay Time			17	30	ns
t,	Turn - Off Fall Time			13	25	ns
Q <sub>g</sub>	Total Gate Charge	$V_{DS} = 5 V, I_D = 0.5 A,$		1.64	2.3	nC
Q <sub>gs</sub>	Gate-Source Charge	$V_{GS}^{00} = 4.5 V^{0}$		0.38		nC
Q <sub>gd</sub>	Gate-Drain Charge			0.45		nC
DRAIN-SOU	RCE DIODE CHARACTERISTICS AND MAXIM	UM RATINGS	r	1		1
I <sub>s</sub>	Maximum Continuous Source Current				0.25	Α
V <sub>SD</sub>	Drain-Source Diode Forward Voltage	$V_{GS} = 0 V, I_{S} = 0.25 A$ (Note 2)		0.8	1.2	V

Notes:

1. R<sub>pk</sub> is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins. R<sub>pkc</sub> is guaranteed y<sub>μμ</sub>A
by design while R<sub>μcA</sub> is determined by the user's board design. R<sub>μJA</sub> = 415°C/W on minimum pad mounting on FR-4 board in still air.
Pulse Test: Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%.



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