ELECTRICAL SPECIFICATIONS

Typical @ 25°C unless otherwise noted

Parameter		Symbol	Min.	Max.	Unit
Gate-Source Breakdown Voltage V_{DS} =0Vdc, I_G = 1.0µAdc		$V_{(BR)GSS}$	30		Vdc
Gate-Source "Off" State Voltage V_{DS} = -15Vdc, ID = -1.0nAdc	2N5114 2N5115 2N5116	$V_{GS(off)}$	5.0 3.0 1.0	10.0 6.0 4.0	Vdc Vdc Vdc
Gate Reverse Current V_{DS} = 0Vdc, V_{GS} = 20Vdc		I_{GSS}		500	pA
Drain Cutoff Current V_{DS} = -15Vdc, V_{GS} = 12Vdc V_{DS} = -15Vdc, V_{GS} = 7Vdc V_{DS} = -15Vdc, V_{GS} = 5Vdc	2N5114 2N5115 2N5116	$I_{D(off)}$		-500 -500 -500	pA pA pA
Small Signal Drain to Source "On" Resistance V_{GS} = 0Vdc, I_D = -1mAdc V_{GS} = 0Vdc, I_D = 0Adc, f = 1kHz	2N5114 2N5115 2N5116	$R_{DS(on)}$		75 100 175	Ω Ω Ω
Drain Source "On" State Voltage V_{GS} = 0Vdc, I_D = -15mAdc V_{GS} = 0Vdc, I_D = -7mAdc V_{GS} = 0Vdc, I_D = -3mAdc	2N5114 2N5115 2N5116	$V_{DS(on)}$		-1.3 -0.8 -0.6	Vdc Vdc Vdc
Small Signal, Common Source Reverse Transfer Capacitance V_{GS} = 12Vdc, V_{DS} = 0Vdc V_{GS} = 7Vdc, V_{DS} = 0Vdc V_{GS} = 5Vdc, V_{DS} = 0Vdc	2N5114 2N5115 2N5116	C_{rss}		7	pF
Small Signal, Common Source Short-Circuit Input Capacitance V_{GS} = 0Vdc V_{DS} = -15Vdc, f = 1.0MHz	2N5114 2N5115 2N5116	C_{iss}		25 25 27	pF
Turn On Delay Time	2N5114 2N5115 2N5116	$t_{D(on)}$		6 10 25	nS nS nS
Rise Time	2N5114 2N5115 2N5116	t_r		10 20 35	nS nS nS
Turn Off Delay Time	2N5114 2N5115 2N5116	$t_{d(off)}$		6 8 20	nS nS nS

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