

2N4091, 2N4092, 2N4093 JAN SERIES

ELECTRICAL CHARACTERISTICS ($T_C = 25^{\circ}C$ unless otherwise noted) (con't)

PARAMETERS / TEST CONDITIONS		Symbol	Min.	Max.	Units	
Static Drain - Source On-State Resistance $V_{GS} = 0, I_D = 1.0 \text{ mAdc}$		$r_{DS(on)}$		30	Ω	
2N4091			50			
2N4092 2N4093			80			
Drain - Source On-State Voltage $V_{GS} = 0, I_D = 6.6 \text{ mAdc}$ $V_{GS} = 0, I_D = 4.0 \text{ mAdc}$ $V_{GS} = 0, I_D = 2.5 \text{ mAdc}$		$V_{DS(on)}$		0.2	Vdc	
2N4091			0.2			
2N4092 2N4093			0.2			
Small-Signal, Common-Source Reverse Transfer Capacitance $V_{GS} = 20 \text{ Vdc}, V_{DS} = 0, f = 1.0 \text{ MHz}$		C_{rss}		5.0	pF	
Small-Signal, Common-Source Short-Circuit Input Capacitance $V_{GS} = 0, V_{DS} = 20 \text{ Vdc}, f = 1.0 \text{ MHz}$		C_{iss}		16	pF	
Turn-On Delay Time	2N4091 2N4092 2N4093	See Figure 3 of MIL-PRF- 19500/431	$t_{d_{on}}$	15	ηs	
Rise Time	2N4091 2N4092 2N4093			t_r		10
						20
Turn-Off Delay Time	2N4091 2N4092 2N4093	$t_{d_{off}}$	40		ηs	
			60			
			80			