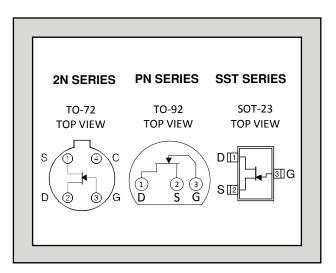
LINEAR SYSTEMS

Improved Standard Products[®]

FEATURES									
LOW POWER ID	ss<600 μA (2N4117A)								
MINIMUM CIRCUIT LOADING IG	ss<1 pA (2N4117A Series)								
ABSOLUTE MAXIMUM RATINGS (NOTE 3)									
@ 25°C (unless otherwise noted)									
Gate-Source or Gate-Drain Voltage	-40V								
Gate-Current	50mA								
Total Device Dissipation									
(Derate 2mW/ºC above 25ºC)	300mW								
Storage Temperature Range	-55⁰C to+150⁰C								
Lead Temperature									
(1/16" from case for 10 seconds)	300ºC								

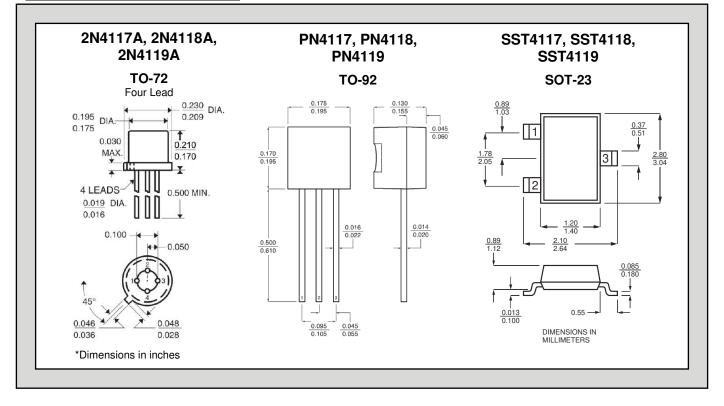
<u>2N/PN/SST 4117,</u> <u>4118, 4119</u>

ULTRA-HIGH INPUT IMPEDANCE N-CHANNEL JFET AMPLIFIER



ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

		4117		4118		4119				
SYMBOL	CHARACTERISTIC	MIN	MAX	MIN	MAX	MIN	MAX	UNITS	CONDITIONS	
BV _{GSS}	Gate-Source Breakdown Voltage	-40		-40		-40		v	$I_G = -1\mu A$ $V_{DS} = 0$	
V _{GS(off)}	Gate-Source Cutoff Voltage	-0.6	-1.8	-1	-3	-2	-6		V _{DS} =10V I _D =1nA	
IDSS	Saturation Drain Current (NOTE 2)	0.03	0.60	0.08	0.60	0.20	0.80	mA	V _{DS} =10V V _{GS} =0	
IGSS	Gate Reverse Current 2N4117A, 2N4118A, 2N4119A		-1		-1		-1	pA nA	$V_{GS} = -20V V_{DS} = 0$	
			-2.5		-2.5		-2.5			150ºC
	PN4117, PN4118, PN4119 SST4117, SST4118, SST4119		-10		-10		-10	pА	V _{GS} =-10V V _{DS} =0	
			-25		-25		-25	nA	$V_{\rm GS} = 10$ $V_{\rm DS} = 0$	150ºC
g fs	Common-Source Forward Transconductance	70	450	80	650	100	700	μS pF		f=1kHz
gos	Common-Source Output Conductance		3		5		10		VDS =10V VGS=0	
Ciss	Common-Source Input Capacitance (NOTE 4)		3		3		3			f=1MHz
C _{rss}	Common-Source Reverse Transfer Capacitance (NOTE 4)		1.5		1.5		1.5			



NOTES:

- 1. Due to symmetrical geometry, these units may be operated with source and drain leads interchanged.
- 2. This parameter is measured during a 2 ms interval 100 ms after power is applied. (Not a JEDEC condition.)
- 3. Absolute maximum ratings are limiting values above which serviceability may be impaired.
- 4. Not production tested, guaranteed by design.

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