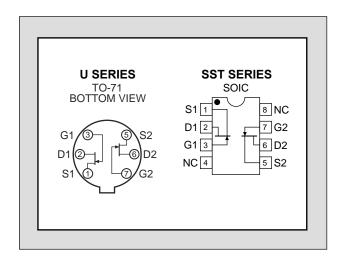


Linear Integrated Systems

FEATURES					
Direct Replacement for SILICONIX U/SST440 & U/SST441					
HIGH CMRR	CMRR ≥ 85dB				
LOW GATE LEAKAGE I _{GSS} ≤ 1pA					
ABSOLUTE MAXIMUM RATINGS ¹					
@ 25 °C (unless otherwise stated)					
Maximum Temperatures					
Storage Temperature	-65 to +150 °C				
Operating Junction Temperature	-55 to +135 °C				
Maximum Power Dissipation					
Continuous Power Dissipation (Total)	500mW				
Maximum Currents					
Gate Current	50mA				
Maximum Voltages					
Gate to Drain	-25V				
Gate to Source	-25V				
Gate to Gate	±50V				

U/SST440,441

MONOLITHIC DUAL N-CHANNEL JFET



MATCHING CHARACTERISTICS @ 25 °C (unless otherwise stated)

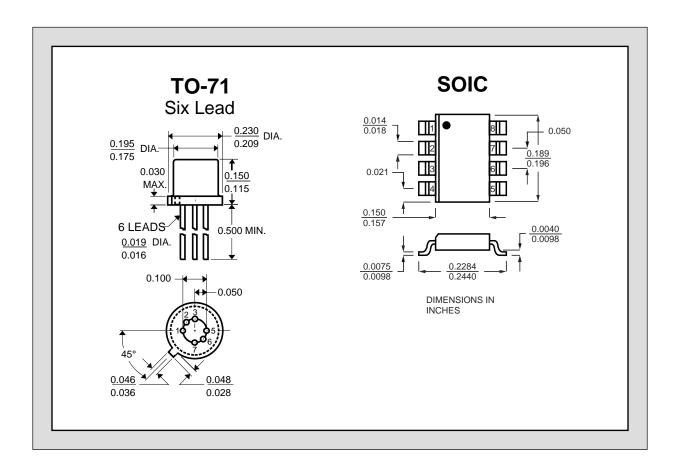
SYMBOL	CHARACTERISTIC		MIN	TYP	MAX	UNITS	CONDITIONS
V _{GS1} – V _{GS2}	Differential Gate to Source Cutoff Voltage	U/SST440			10	mV	V _{DG} = 10V, I _D = 5mA
V GS1 - V GS2		U/SST441			20		
$\Delta \left V_{\text{GS1}} - V_{\text{GS2}} \right $	Differential Gate to Source Cutoff			20	20	μV/°C	V_{DG} = 10V, I_D = 5mA
ΔΤ	Voltage Change with Tempe	rature		20		μν/ Ο	$T_A = -55 \text{ to } +125^{\circ}\text{C}$
I _{DSS1} I _{DSS2}	Gate to Source Saturation Current Ratio			0.07			$V_{DS} = 10V, V_{GS} = 0V$
$\frac{g_{\text{fs1}}}{g_{\text{fs2}}}$	Forward Transconductance Ratio ²			0.97			$V_{DS} = 10V, I_D = 5mA, f = 1kHz$
CMRR	Common Mode Rejection Ra	itio		85		dB	V_{DG} = 5 to 10V, I_D = 5mA

ELECTRICAL CHARACTERISTICS @ 25 °C (unless otherwise stated)

SYMBOL	CHARACTERISTIC	MIN	TYP	MAX	UNITS	CONDITIONS
BV _{GSS}	Gate to Source Breakdown Voltage	-25			V	$I_{G} = -1\mu A, V_{DS} = 0V$
$V_{GS(off)}$	Gate to Source Cutoff Voltage	-1	-3.5	-6	٧	$V_{DS} = 10V, I_{D} = 1nA$
I _{DSS}	Gate to Source Saturation Current ³	6	15	30	mA	$V_{DS} = 10V, V_{GS} = 0V$
I _{GSS}	Gate Leakage Current		-1	-500	nΛ	$V_{GS} = -15V, V_{DS} = 0V$
I _G	Gate Operating Current		-1	-500	pА	$V_{DG} = 10V, I_{D} = 5mA$

ELECTRICAL CHARACTERISTICS CONTINUED @ 25 °C (unless otherwise stated)

SYMBOL	CHARACTERISTIC	MIN	TYP	MAX	UNITS	CONDITIONS
g _{fs}	Forward Transconductance	4.5	6	9	mS	$V_{DS} = 10V, I_{D} = 5mA, f = 1kHz$
gos	Output Conductance		70	200	μS	V _{DS} = 10V, I _D = 5IIIA, I = 1KHZ
C _{iss}	Input Capacitance		3		۲,	\/ = 10\/ = 5 \ \ f = 1\frac{1}{1}
C _{rss}	Reverse Transfer Capacitance		1		pF	$V_{DS} = 10V, I_{D} = 5mA, f = 1MHz$
e _n	Equivalent Input Noise Voltage		4		nV/√Hz	$V_{DS} = 10V, I_D = 5mA, f = 10kHz$



- Absolute maximum ratings are limiting values above which serviceability may be impaired. 1.
- 2. Pulse Test: PW ≤ 300µs Duty Cycle ≤ 3%
- Assumes smaller value in numerator.

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