

CIRCUITS.

## 2N 3707 through 2N 3711 2N 4058 through 2N 4062

NPN . PNP SILICON AF SMALL SIGNAL TRANSISTORS

THE 2N3707 THROUGH 2N3711 (NPN) AND 2N4058 THROUGH 2N4062 (PNP) ARE COMPLEMENTARY SILICON PLANAR EPITAXIAL TRANSISTORS FOR USE IN AF SMALL SIGNAL AMPLIFIER STAGES AND DIRECT COUPLED



ABSOLUTE MAXIMUM RATINGS For p-n-p devices, voltage and current va	lues are negative.	(NPN) 2N3707 thru' 2N3711	(PNP) 2N4058 thru' 2N4062
Collector-Base Voltage	VCBO	30 <b>v</b>	30 <b>v</b>
Collector-Emitter Voltage	$v_{CEO}$	30V	30 <b>v</b>
Emitter-Base Voltage	$v_{\rm EBO}$	6 <b>v</b>	6 <b>v</b>
Collector Current	IC	200mA	100mA **
Total Power Dissipation ( $TA \le 25^{\circ}C$ )	$P_{ exttt{tot}}$		60mW mw/oc above 25°C
Operating Junction & Storage Temperature	Tj, Ts	stg -55 to	150°C

30mA in JEDEC registration.

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	NPN MIN MAX	PNP MIN MAX	UNIT	TEST CONDITIONS
Collector-Base Breakdown Voltage	BVCBO	30	30	Ψ	IC=0.01mA IE=0
Collector-Emitter Breakdown Voltage	$\mathtt{Lv}_{\mathtt{CEO}}$	- 30	30	٧	IC=lmA IB=0(Pulsed)
Collector Cutoff Current	$I_{\mathrm{CBO}}$	100	100	nA	$v_{CB}=20v$ $I_{E}=0$
Emitter Cutoff Current	$I_{ m EBO}$	100	100	nA	VEB=6V IC=0
Collector-Emitter Saturation Voltage	$v_{ t CE(sat)}$	1	0.7	v	IC=10mA IB=0.5mA
Base-Emitter Voltage	$v_{BE}$	0.5 1	0.5 1	Ą	IC=1mA VCE=5V
Noise Figure *	nf				
			5	ďΒ	Ic=0.1mA VcE=5V Rc=5Ka f=30Hz-15K
		5		đВ	IC=0.lmA VCE=5V RG=10KA f=30Hz-15KHz

<sup>\*</sup> For 2N3707 and 2N4058 only.

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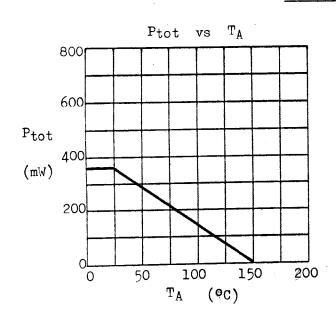
FAX: 3-410321

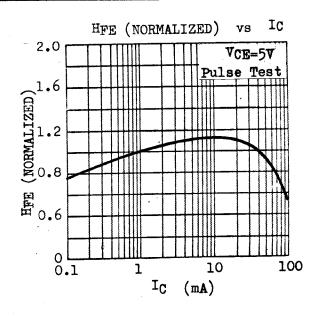
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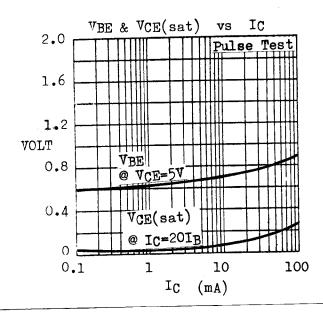
D.C. AND SMALL SIGNAL CURRENT GAIN (HFE, hfe) AT VCE=5V TA=25°C

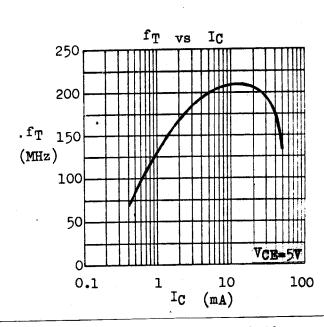
NPN PNP	2N3707 2N4058	2N3708 2N4059	2N3709 2N4060	2N3710 2N4061	2N3711 2N4062
PARAMETER	MIN MAX				
HFE at IC=0.1mA	100 400				
HFE at IC=lmA	1 1	45 660	45 165	90 330	180 660
h <sub>fe</sub> at I <sub>C</sub> =0.lmA f=1KHz	100 550	,			
h <sub>fe</sub> at I <sub>C</sub> =lmA f=lKHz		45 800	45 250	90 450	180 800

## TYPICAL CHARACTERISTICS AT TA=25°C









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