FAIRCHILD SEMICONDUCTOR™

DISCRETE POWER & SIGNAL TECHNOLOGIES

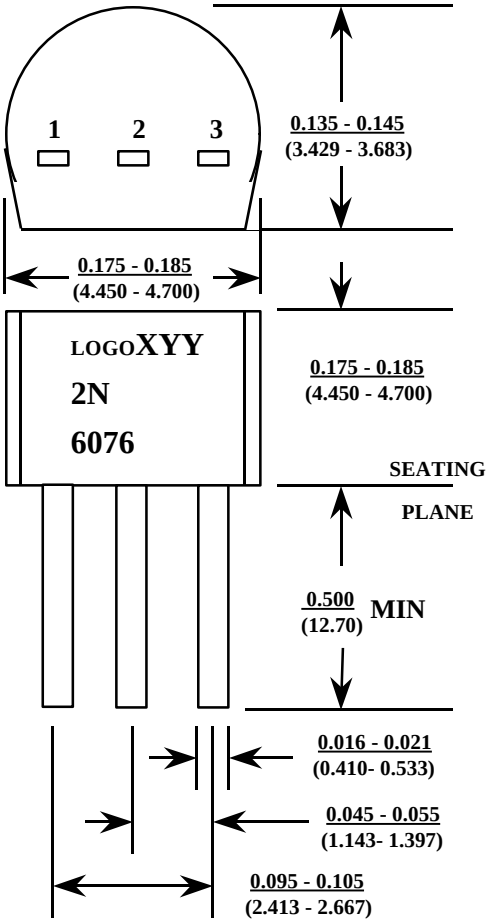
2N6076

SILICON PNP SMALL SIGNAL TRANSISTOR

BVCEO . . . . 25 V (Min)

hFE . . . . 100 (Min) @ VCE = 10 V, IC = 10 mA

1	2	3
B	C	E



ABSOLUTE MAXIMUM RATINGS (NOTE 1)

TEMPERATURES

Storage Temperature	-55 Degrees C to	150 Degrees C
Operating Junction Temperature		150 Degrees C

POWER DISSIPATION (NOTES 2 & 3)

Total Device Dissipation at TA = 25 Deg C	625 mW

VOLTAGES & CURRENT

VCEO	Collector to Emitter	25 V
VCBO	Collector to Base	25 V
VEBO	Emitter to Base	5 V
IC	Collector Current	500 mA

ELECTRICAL CHARACTERISTICS (25 Degrees C Ambient Temperature unless otherwise stated)

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
BVCBO	Collector to Base Voltage	25		V	IC = 100 uA
BVCEO	Collector to Emitter Voltage	25		V	IC = 10 mA
BVEBO	Emitter to Base Voltage	5		V	IE = 10 uA
ICBO	Collector Cutoff Current		100	nA	VCB = 25 V
			10	uA	VCB = 25 V , T=+100°C
ICES	Collector Cutoff Current		100	nA	VCE = 25 V
IEBO	Emitter Cutoff Current		100	uA	VEB = 3.0 V
hFE	DC Current Gain	100	500		VCE = 10 V IC = 10 mA
VCE(sat)	Collector-Emitter Saturation Voltage		0.25	V	IC = 10mA IB = 1.0mA
VBE(sat)	Base-Emitter Saturation Voltage		0.8	V	IC = 10mA IB = 1.0mA
VBE(on)	Base -Emitter On Voltage	0.5	1.2	V	VCE = 10 V IC = 10mA

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ELECTRICAL CHARACTERISTICS Con't (25 Degrees C Ambient Temperature unless otherwise stated)

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
C_{cb}	Output Capacitance	1	13	pF	V_{CB} = 10 V, f = 1 MHz
hfe	Small Signal Current Gain	100	750		V_{CE} = 10 V, I_C=10 mA, f =1KHz

NOTES:

1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
3. These ratings are based on a maximum junction temperature of 150 degrees C.

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