NEC

PNP SILICON POWER TRANSISTOR **2SA1546**

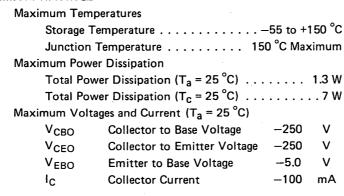
DESCRIPTION

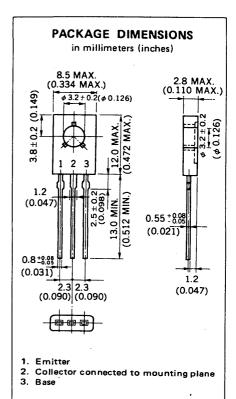
The 2SA1546 is designed for uses of high-resolution monitor TV applications. This makes it possible to raise the video band of high-resolution monitor TVs to 50 MHz.

FEATURES

- High f_T : $f_T = 300$ MHz TYP. (@V_{CE} = -30 V, $I_E = 30$ mA)
- Low C_{ob} : C_{ob} = 3.3 pF (@V_{CB} = -30 V)
- ◆ High Voltage: V_{CBO} = V_{CEO} = -250 V
- High Total Power Dissipation: $P_T (T_a/T_c = 25 \,^{\circ}C) = 1.3 \, W/7 \, W$
- Complementary to 2SC4001

ABSOLUTE MAXIMUM RATINGS





ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

SYMBOL	CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
ηFE	DC Current Gain	60	150	320	_	$V_{CE} = -10 \text{ V}, I_{C} = -10 \text{ mA}$
fT	Gain Bandwidth Product	200	300		MHz	$V_{CE} = -30 \text{ V}, I_{E} = 30 \text{ mA}$
C _{ob}	Output Capacitance		3.3	3.7	ρF	$V_{CB} = -30 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$
ICBO	Collector Cutoff Current			100	nA	$V_{CB} = -200 \text{ V, } I_{E} = 0$
I _{EBO}	Emitter Cutoff Current			100	nÁ	$V_{EB} = -3.0 \text{ V}, I_{C} = 0$
V _{CE(sat)}	Collector Saturation Voltage		-0.12	-0.3	V	$I_C = -10 \text{ mA}, I_B = -1.0 \text{ mA}$
$V_{BE(sat)}$	Base Saturation Voltage		-0 73	-1.2	V	$I_C = -10 \text{ mA}, I_B = -1.0 \text{ mA}$
VESDR	Electrostatic Discharge-Resistant		800		V	C = 1 000 pF, E-B Reverse Bias

^{*} Pulsed PW < 350 $\mu s,$ Duty Cycle < 2 %

TYPICAL CHARACTERISTICS (Ta = 25 °C)

