

isc Silicon PNP Power Transistor

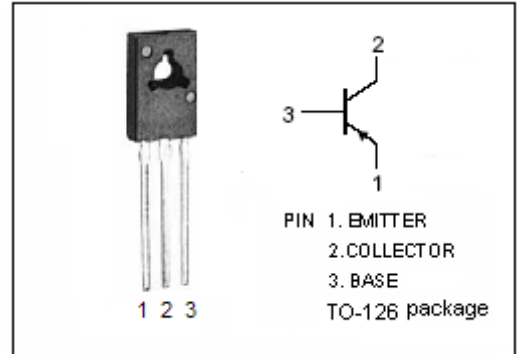
2SA1546

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 50MHz.

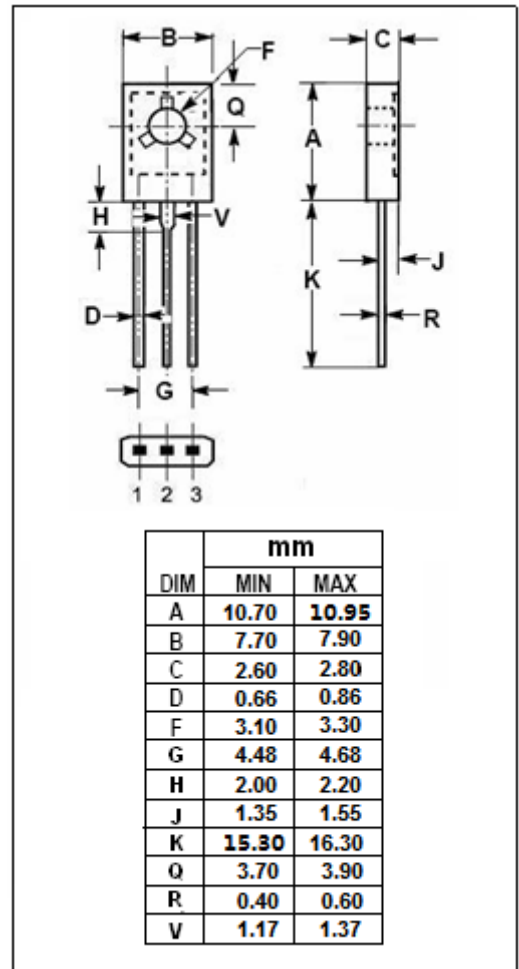
FEATURES

- Collector–Emitter Sustaining Voltage– : $V_{CBO} = -250\text{ V}(\text{Min})$
- Complement to Type 2SC4001



ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-250	V
V_{CEO}	Collector-Emitter Voltage	-250	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_c	Collector Current-Continuous	-0.1	A
P_c	Collector Power Dissipation $T_c=25^\circ\text{C}$	-7	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon PNP Power Transistor**2SA1546****ELECTRICAL CHARACTERISTICS** $T_C = 25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{CBO}	Collector Cutoff Current	$V_{CB} = -200\text{V}; I_E = 0$		-100	nA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -3\text{V}; I_C = 0$		-100	nA
h_{FE}	DC Current Gain	$I_C = -10\text{mA}; V_{CE} = -10\text{V}$	60		300
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -10\text{mA}; I_B = -1\text{mA}$		-0.3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -10\text{mA}; I_B = -1\text{mA}$		-1.2	V
f_T	Current-Gain—Bandwidth Product	$I_E = -30\text{mA}; V_{CE} = 30\text{V}$	200		MHz
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = 30\text{V}; f_{test} = 1.0\text{MHz}$		3.5	pF

◆ **h_{FE} Classifications**

M	L	K
60-120	100-200	160-300