

isc Silicon PNP Power Transistor

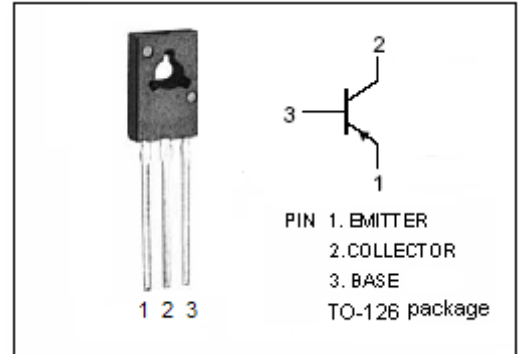
2SA1546

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.

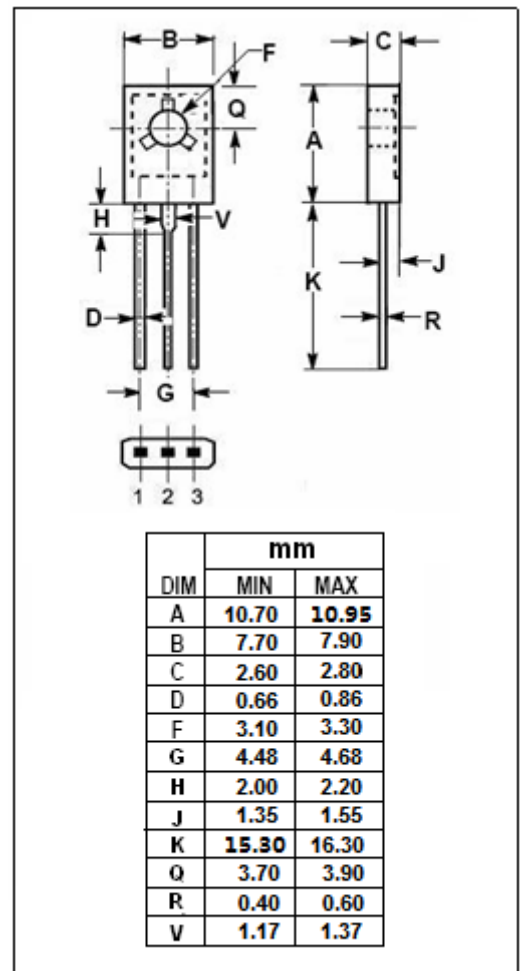
FEATURES

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



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

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



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## 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