

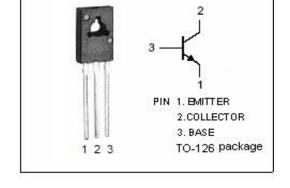
isc Silicon NPN Power Transistor

DESCRIPTION

- The 2SC4001is 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.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

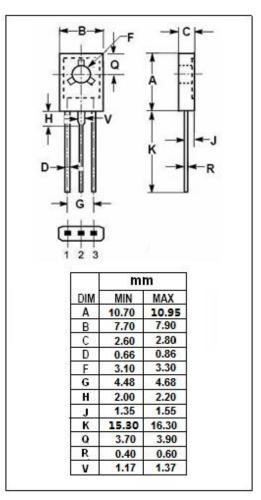
FEATURES

- Collector–Emitter Sustaining Voltage–
 - $: V_{CBO} = 300 V(Min)$
- Complement to Type 2SA1546



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	250	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.1	А
Pc	Collector Power Dissipation T_c =25 $^{\circ}$ C	7	W
Ti	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$





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2SC4001

ELECTRICAL CHARACTERISTICS

Tc =25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
Ісво	Collector Cutoff Current	V _{CB} = 200V; I _E = 0		100	nA
ІЕВО	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0		100	nA
h _{FE}	DC Current Gain	I _C = 10m A ; V _{CE} =10V	60		300
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 10mA ;I _B =1mA		0.3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 10mA ;I _B = 1mA		1.2	V
f _T	Current-Gain—Bandwidth Product	I _E = 30mA ; V _{CE} = 30V	200		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 30V;f _{test} = 1.0MHz		3.5	pF

♦ h_{FE} Classifications

M	LK	
60-120	100-200	160-300

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