

Silicon NPN Transistor

2SC458

DESCRIPTION

- Collector-Emitter Breakdown Voltage

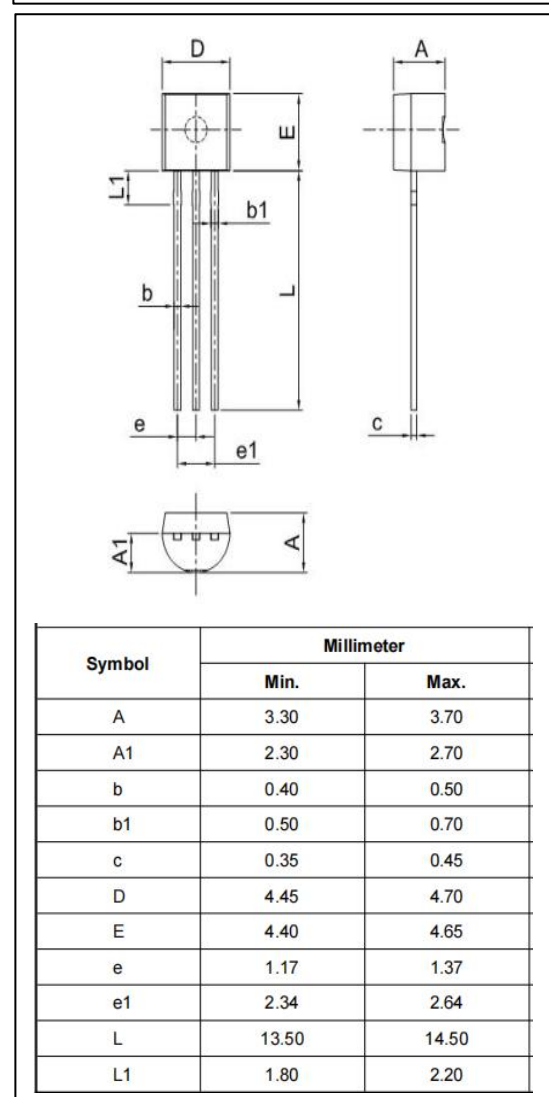
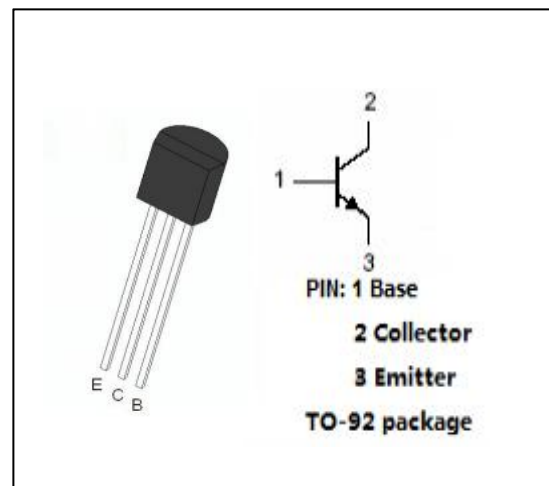
$$-V_{(BR)CEO} = 30V(\text{Min})$$

APPLICATIONS

- Switching Regulators
- Converters
- Power Amplifiers

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	30	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	100	mA
I_E	Base Current	-100	mA
P_C	Total Power Dissipation	200	mW
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



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ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10uA, I _B = 0	30	--	--	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA, R _{BE} = ∞	30	--	--	V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _C = 10uA, I _C = 0	5	--	--	V
V _{CE(sat)}	Collector Emitter Breakdown Voltage	I _E =10mA, I _B =1mA	--	--	0.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 18V, I _E = 0	--	--	0.5	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 2V, I _C = 0	--	--	0.5	uA
h _{FE}	DC Current Gain	I _C = 2mA, V _{CE} = 12V	100	--	500	

HFE CLASS

	B	C	D
2SC458	100-200	160-320	250-500

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