

isc Silicon NPN Power Transistor
2SC5252
DESCRIPTION

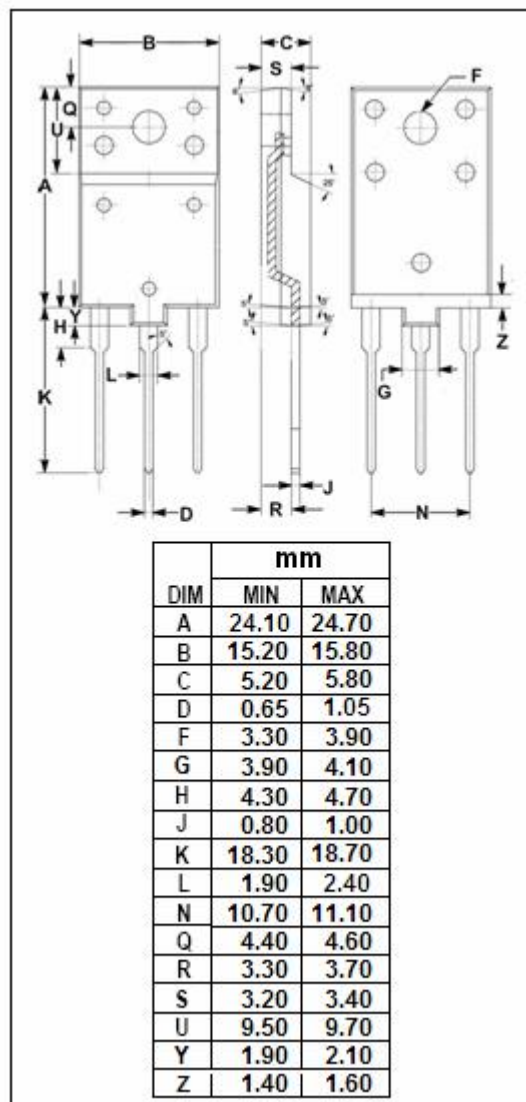
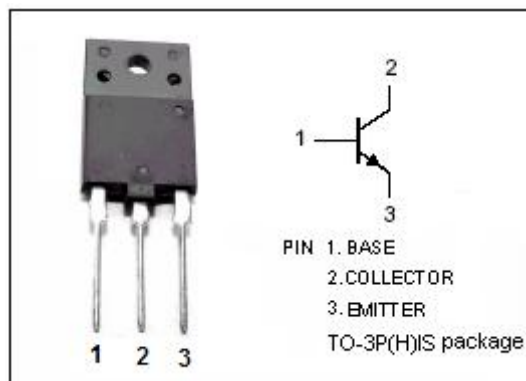
- High speed switching
High breakdown voltage
VCBO = 1500 V
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Character display horizontal deflection output

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current- Continuous	15	A
I _{CM}	Collector Current-Peak	30	A
P _C	Collector Power Dissipation @ T _C =25°C	50	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA ; I _B = 0	800			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 3A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 10A; I _B = 3A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			0.5	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V ; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8		35	
h _{FE-2}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	3		6	
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 5V; f _{test} = 1.0MHz		5		MHz

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