

isc Silicon PNP Power Transistor
2SB753
DESCRIPTION

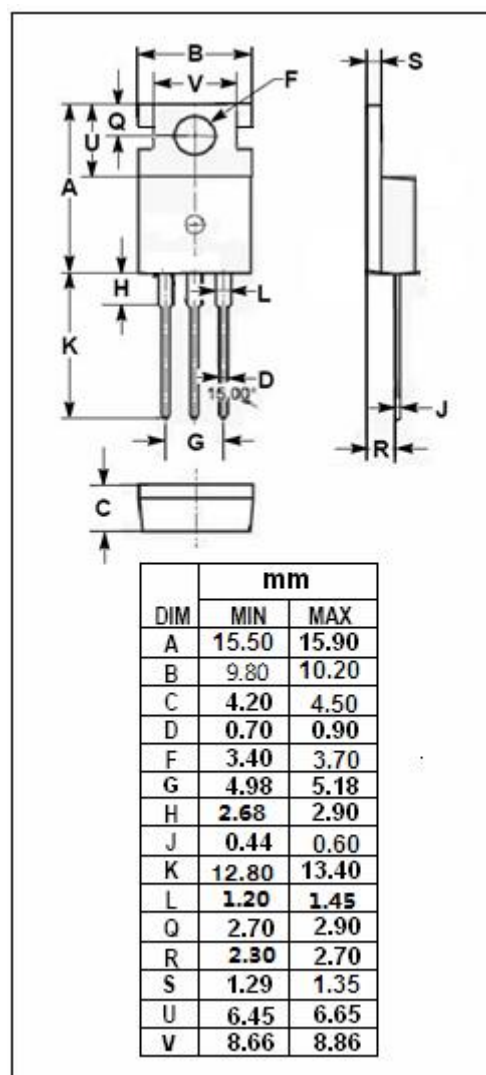
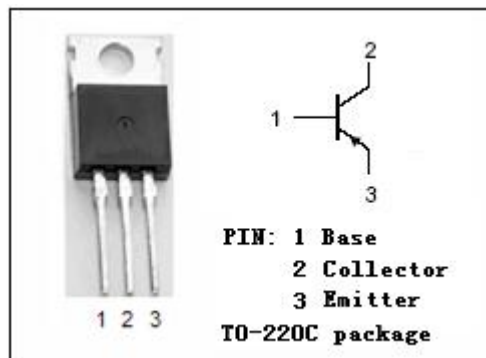
- High Collector Current: $I_C = -7A$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.5V(\text{Max}) @ I_C = -4A$
- High Collector Power Dissipation
- Complement to Type 2SD843
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High current switching applications
- Power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-7.0	V
I_C	Collector Current-Continuous	-7	A
P_C	Collector Power Dissipation @ $T_a = 25^\circ\text{C}$	1.5	W
	Total Power Dissipation @ $T_C = 25^\circ\text{C}$	40	
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)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ; I _B = 0	-80			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V ; I _E = 0			-5	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	μ A
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -4A ; V _{CE} = -1V	30			

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

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