

isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
- : V_{(BR) CEO}= 100V(Min)
- DC Current Gain -hFE = 50(Min)@ IC= 0.5A
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

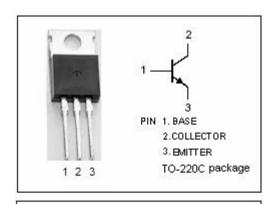


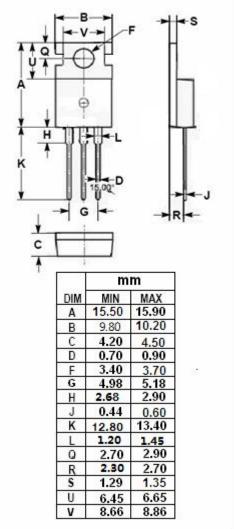
APPLICATIONS

 Designed for use in general purpose amplifier and switching applications.

Absolute maximum ratings(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	4	Α
Ісм	Collector Current-Pulse	6	Α
lв	Base Current	1	Α
Pc			W
Tj	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Ttemperature Range -65~150		$^{\circ}$







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2SD723

ELECTRICAL CHARACTERISTICS

 T_C =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.5A		1.2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 4A; V _{CE} = 4V		1.8	V
Ices	Collector Cutoff Current	V _{CE} = 100V; V _{EB} = 0		0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = 100V; I _B = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.5A ; V _{CE} = 4V	50	250	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 4V	10		
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V	3		MHz

NOTICE:

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