

isc Silicon NPN Power Transistor

2SD723

DESCRIPTION

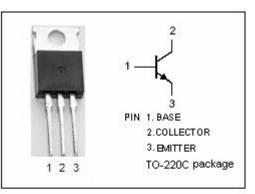
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR) CEO}= 100V(Min)
- DC Current Gain -h_{FE} = 50(Min)@ I_C= 0.5A
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

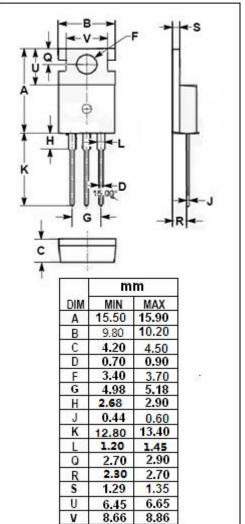
APPLICATIONS

• Designed for use in general purpose amplifier and switching applications.

Absolute maximum ratings(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
VEBO	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	4	А
I _{CM}	Collector Current-Pulse	6	А
IB	Base Current	1	А
Pc	Collector Power Dissipation Tc=25℃	40	W
Tj	Junction Temperature	150	
T _{stg}	Storage Ttemperature Range	-65~150	°C
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isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

$T_{C}\text{=}25^{\circ}\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	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 = 4Α; I _B = 0.5Α		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		
fT	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 10V	3		MHz

NOTICE:

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