

ISC Silicon PNP Power Transistor

2SB823

DESCRIPTION

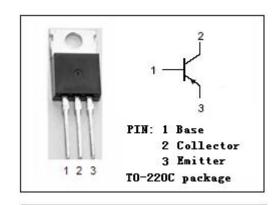
- Collector-Emitter Breakdown Voltage
 V_{(BR)CEO} = -100V(Min)
- Low Collector Saturation Voltage
 - : $V_{CE(sat)}$ = -1.5 $V(Max)@I_{C}$ = -6A
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

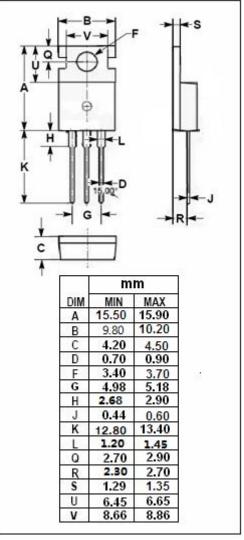


 Designed for use in general purpose amplifer and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
СВО	Collector-Base Voltage	-100	V
V _{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current-Continuous	-6	А
Ісм	Collector Current-Peak	-10	А
Pc	Total Power Dissipation @ T _C =25℃	40	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	







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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 = -10mA ; R _{BE} = ∞	-100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA ; I _E = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA ; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.6A			-1.5	V
VBE(on)	Base-Emitter On Voltage	I _C = -6A ; V _{CE} = -4V			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -100V ; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -5V		20		MHz

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