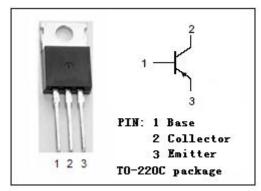


isc Silicon PNP Power Transistor

DESCRIPTION

- High Collector Current: I_C= -5A
- Low Collector Saturation Voltage
 - : V_{CE(sat)}= -0.4V(Max)@I_C= -3A
- · Wide Area of Safe Operation
- Complement to Type 2SD1060

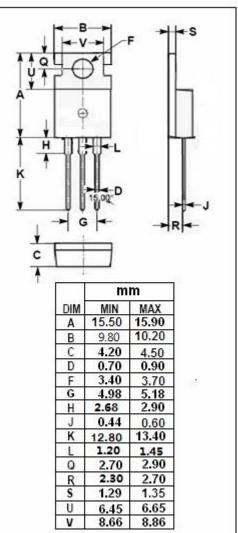


APPLICATIONS

• Designed for relay drivers, high-speed inverters, converters, and other gereral large-current switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
СВО	Collector-Base Voltage	-60	V
Vceo	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current-Continuous	-5	Α
Ісм	Collector Current-Peak	-9	А
Pc	Total Power Dissipation @ T _C =25℃	30	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$





isc Silicon PNP Power Transistor

2SB824

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA ; R _{BE} = ∞	-50			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1mA ; I _E = 0	-60			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 = -3A; I _B = -0.3A			-0.4	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V ; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-0.1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	70		280	
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -2V	30			
Сов	Collector Output Capacitance	I _E =0; V _{CB} = -10V; f=1MHz		160		pF
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -5V		30		MHz

♦ h_{FE-1} Classifications

Q	R	S
70-140	100-200	140-280

NOTICE:

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