

isc Silicon PNP Darlington Power Transistor

2SB668

DESCRIPTION

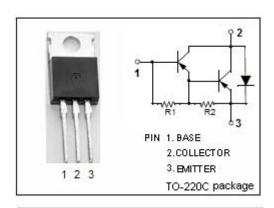
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -100V(Min)
- High DC Current Gain
- : h_{FE}= 2000(Min) @I_C= -0.5A
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

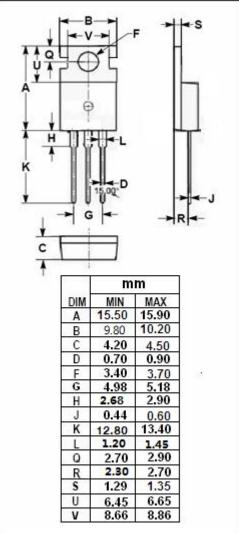
APPLICATIONS

Designed for use in power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-100	٧
V_{CEO}	Collector-Emitter Voltage	-100	V
V _{EBO}	Emitter-Base Voltage	-5	٧
Ic	Collector Current-Continuous	-3	А
I _{CP}	Collector Current-Peak	-5	А
P _C	Collector Power Dissipation @ T _a =25°C	2	14/
	Collector Power Dissipation @ T _C =25 ℃	25	W
TJ	Junction Temperature		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -2mA; I _C = 0	-5			V
V _{(BR)CBO}	Collector-Base breakdown voltage	I _C =-1mA; I _E = 0	-100			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -8mA			-2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2A; I _B = -8mA			-2.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -100V; I _B = 0			-0.5	mA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2	mA
h _{FE -1}	DC Current Gain	I _C = -0.5A ; V _{CE} = -3V	2000			
h _{FE -2}	DC Current Gain	I _C = -3A ; V _{CE} = -3V	750			

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