

isc Silicon PNP Darlington Power Transistor

2SB669

DESCRIPTION

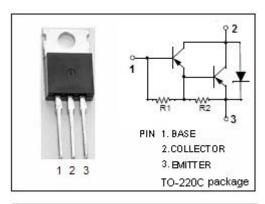
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -70V(Min)
- · High DC Current Gain
 - : h_{FE}= 2000(Min) @I_C= -1A
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

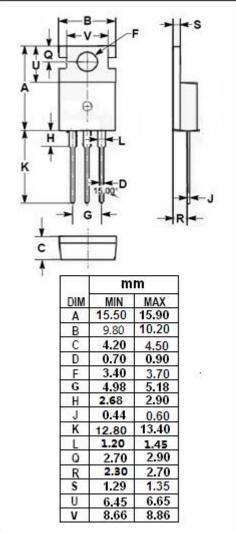


Designed for use in power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	-70	V	
V _{CEO}	Collector-Emitter Voltage	-70	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-4	Α	
I _{CP}	Collector Current-Peak	-6	Α	
l _Β	Base Current-Continuous	-0.3	А	
Pc	Collector Power Dissipation @ T _a =25°C	2	· w	
	Collector Power Dissipation @ T _c =25 °C	40		
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA ; I _B = 0	-70			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	-70			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -6mA			-2.5	V
Ісво	Collector Cutoff Current	V _{CB} = -70V; I _E = 0			-0.1	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -70V; 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 = -1A ; V _{CE} = -3V	2000			
h _{FE -2}	DC Current Gain	I _C = -4A ; V _{CE} = -3V	750			

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