

isc Silicon PNP Darlington Power Transistor

2SB1625

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= -110V(Min)
- · Low-Collector Saturation Voltage-
- : V_{CE(sat)}= -2.5V(Max.)@I_C= -5A
- · Complement to Type 2SD2494
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

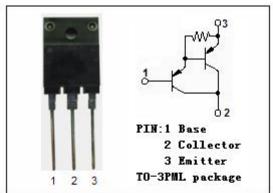
APPLICATIONS

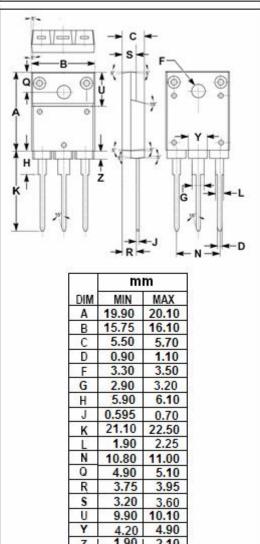


 Designed for audio, series regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-110	V	
V _{CEO}	Collector-Emitter Voltage	-110	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-6	А	
I _B	Base Current- Continuous	-1	Α	
Pc	Collector Power Dissipation @ T _C =25℃	60	W	
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

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-110			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-2.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -5mA			-3.0	V		
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-100	μА		
I _{CBO}	Collector Cutoff Current	V _{CB} = -110V; I _E = 0			-100	μА		
h _{FE}	DC Current Gain	I _C = -5A; V _{CE} = -4V	5000		30000			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		110		pF		
f⊤	Current-Gain—Bandwidth Product	Ic= -0.5A; V _{CE} = -12V		100		MHz		

h_{FE}Classifications

0	Р	Y
5000-12000	6500-20000	15000-30000

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