

## **isc** Silicon PNP Darlington Power Transistor

# 2SB1624

### DESCRIPTION

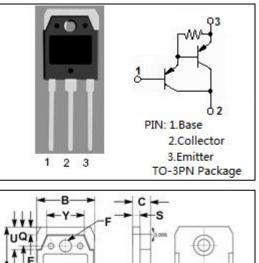
- · High Collector-Emitter Breakdown Voltage-
- : V<sub>(BR)CEO</sub>= -110V(Min)
- · Low-Collector Saturation Voltage-
- : V<sub>CE(sat)</sub>= -2.5V(Max.)@I<sub>C</sub>= -5A
- Complement to Type 2SD2493
- Minimum Lot-to-Lot variations for robust device performance and reliable operatio

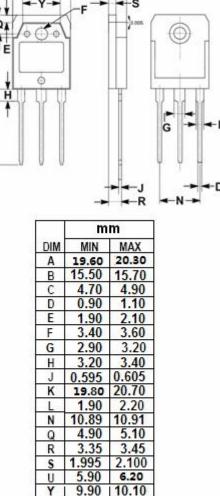
### **APPLICATIONS**

• Designed for audio, series regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
SYMBOL	PARAMETER VALUE		UNIT		
Vсво	Collector-Base Voltage	-110	V		
V <sub>CEO</sub>	Collector-Emitter Voltage	-110	V		
V <sub>EBO</sub>	Emitter-Base Voltage -5		V		
lc	Collector Current-Continuous	-6	A		
I <sub>B</sub>	Base Current- Continuous	-1	Α		
Pc	Collector Power Dissipation @ T <sub>c</sub> =25℃	60	w		
TJ	Junction Temperature 150		°C		
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C		
	1	1	1		

### \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_





isc website: www.iscsemi.com



## **isc** Silicon PNP Darlington Power Transistor

# 2SB1624

### ELECTRICAL CHARACTERISTICS

#### $T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -30mA; I <sub>B</sub> = 0	-110			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -5A; I <sub>B</sub> = -5mA			-2.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -5A; I <sub>B</sub> = -5mA			-3.0	V
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-100	μA
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -110V; I <sub>E</sub> = 0			-100	μA
hfe	DC Current Gain	I <sub>C</sub> = -5A; V <sub>CE</sub> = -4V	5000		30000	
fT	Current-Gain—Bandwidth Product	I <sub>C</sub> = -0.5A; V <sub>CE</sub> = -12V		100		MHz

#### h<sub>FE</sub>Classifications

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

### Notice:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.