

isc Silicon PNP Darlington Power Transistor

2SB601

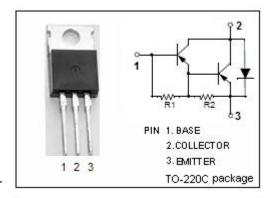
DESCRIPTION

- · High DC Current Gain-
- : $h_{FE} = 2000(Min)@ I_{C} = -3A$
- · Collector-Emitter Sustaining Voltage-
- : $V_{CEO(SUS)} = -100V(Min)$
- · Low Collector-Emitter Saturation Voltage-
- : $V_{CE(sat)} = -1.5V(Max)@ I_{C} = -3A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



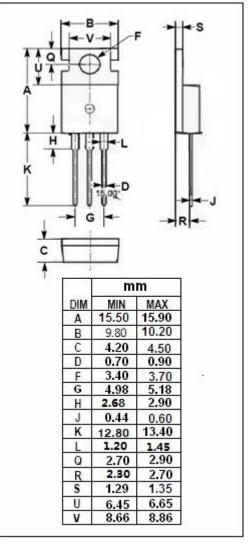
APPLICATIONS

- Designed for use in low-frequency power amplifiers and lowspeed switching applications.
- Ideal for use in direct drive from IC output for magnet drivers such as terminal equipment or cash registers.



ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
V _{CEO}	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-7	V	
Ic	Collector Current-Continuous	-5	А	
I _{CM}	Collector Current-Peak	-8	А	
I _B	Base Current-DC	-0.5	А	
Pc	Collector Power Dissipation T_C =25 $^{\circ}$ C	30		
	Collector Power Dissipation T _a =25℃	1.5	W	
T _j	Junction Temperature	150	$^{\circ}$	
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 _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A ,I _B = -3mA			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= -3A ,I _B = -3mA			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V, I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-3	mA
h _{FE-1}	DC Current Gain	Ic= -3A; V _{CE} = -2V	2000		15000	
h _{FE-2}	DC Current Gain	I _C = -5A ; V _{CE} = -2V	500			

h_{FE-1} Classifications

М	L (К
2000-5000	3000-7000	5000-15000

NOTICE:

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