

isc Silicon PNP Darlington Power Transistor

2SB677

DESCRIPTION

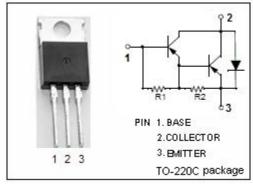
- · High DC Current Gain-
 - : $h_{FE} = 2000(Min)@I_{C} = -1A$
- · Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO} = -40V(Min)$
- · Low Collector-Emitter Saturation Voltage-
 - : $V_{CE(sat)} = -1.5V(Max)@I_{C} = -2A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

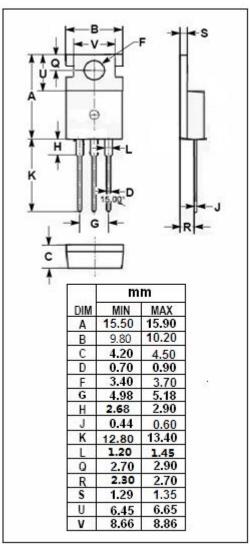
APPLICATIONS

- · Switching applications.
- · Hammer drive, pulse motor drive applications.
- · Power amplifier applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-60	V
Vceo	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-3	А
Pc	Collector Power Dissipation $T_C=25^{\circ}C$	25	W
T _j	Junction Temperature	150	°C
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.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -25mA, I _B = 0	-40			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A, I _B = -4mA			-1.5	V
V _{BE(sat))}	Base-Emitter Saturation Voltage	I _C = -2A, I _B = -4mA			-2.0	V
Ісво	Collector Cutoff Current	V _{CB} = -60V, I _E = 0			-20	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-2.5	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	2000			
h _{FE-2}	DC Current Gain	Ic= -3A; V _{CE} = -2V	1000			



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