

isc Silicon PNP Darlington Power Transistor

2SB675

DESCRIPTION

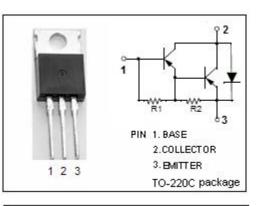
- High DC Current Gain
- : h_{FE}= 2000(Min.) @I_C= 3.0A
- Low Saturation Voltage
 - : V_{CE(sat)}= 1.5V(Max.)@ I_C= 3.0A
- Complement to Type 2SD635
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

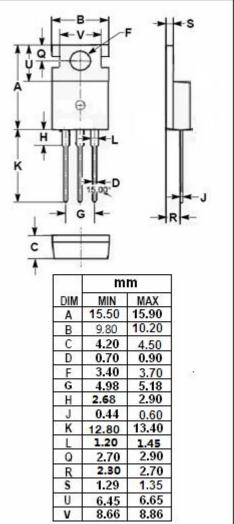
APPLICATIONS

- High power switching applications.
- Hammer drive, pulse motor drive applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	60	V			
V _{CEO}	Collector-Emitter Voltage	60	V			
V _{EBO}	Emitter-Base Voltage	5	V			
lc	Collector Current-Continuous	7	А			
Ι _Β	Base Current-Continuous	0.2	А			
Pc	Collector Power Dissipation @ T_c =25 °C	40	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			
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isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	60			V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 6mA			1.5	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 14mA			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} = 60V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			4.0	mA
h _{FE-1}	DC Current Gain	I _C = 3A ; V _{CE} = 3V	2000		15000	
h _{FE-2}	DC Current Gain	I _C = 7A ; V _{CE} = 3V	1000			

NOTICE:

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