

isc Silicon PNP Darlingtion Power Transistor

2SB1022

DESCRIPTION

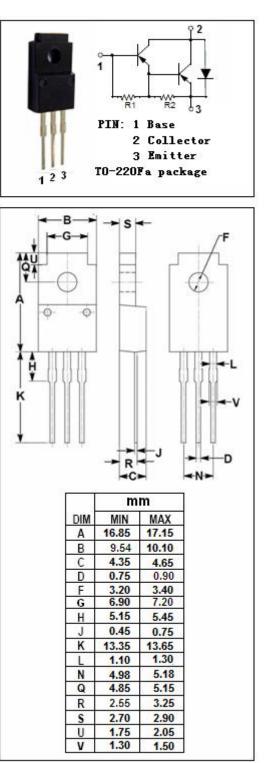
- High DC C urrent Gain-: h_{FE}= 2000(Min.)@I_C= -3A
- Low Collector Saturation Voltage-: V_{CE(sat)}= -1.5V(Max)@I_C= -3A
- Good Linearity of h_{FE}
- Complement to Type 2SD1417
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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	
IB	Base Current-Continuous	-0.2	А	
Pc	Collector Power Dissipation @ T₂=25℃	2	W	
	Collector Power Dissipation @ T_C =25°C	30		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic = -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
І _{сво}	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	Ic= -7A; Vce= -3V	1000			

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