

isc Silicon PNP Power Transistor

2SB1605

DESCRIPTION

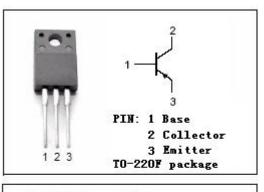
- High-speed Switching
- Low Collector to Emitter Saturation Voltage
 : V_{CE(sat)}= -1.2V(Max.)@I_C= -3A
- Full-pack Package With Outstanding Insulation,
 Which Can Be Installed to The Heat Sink With One Screw
- Minimum Lot-to-Lot variations for robust device
 performance and reliable operation

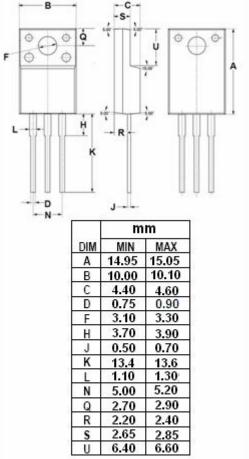
APPLICATIONS

• Designed for low-freauency power switching and general purpose applications.

ABSOLUTE WAXIMUWI RATINGS(Ta=25 C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	-60	V		
Vceo	Collector-Emitter Voltage -60		V		
V _{EBO}	Emitter-Base Voltage -5		V		
lc	Collector Current-Continuous -3		А		
Ісм	Collector Current-Peak	r Current-Peak -5			
	Collector Power Dissipation @ Ta=25°C	2	W		
Pc	Collector Power Dissipation @ Tc=25°C	35	W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range	- 55~150 °C			

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)







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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA, I _B = 0	-60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.375A			-1.2	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -4V			-1.8	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0			-0.2	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -30V; I _B = 0			-0.3	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -4V	70		250	
h _{FE-2}	DC Current Gain	Ic= -3A; Vce= -4V	10			
fT	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -10V;f=10MHz		30		MHz

Switching Times

ton	Turn-on Time		0.5	μs
t _{stg}	Storage Time	I _C = -1A; I _{B1} = -I _{B2} = -0.1A,	1.2	μ S
t _f	Fall Time		0.3	μ S

• h_{FE-1} Classifications

Q	Р
70-150	120-250



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