

isc Silicon PNP Power Transistor

DESCRIPTION

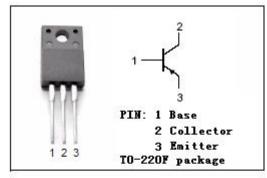
- · High-speed Switching
- Low Collector to Emitter Saturation Voltage
 - : V_{CE(sat)}= -0.5V(Max.)@I_C= -2A
- Full-pack Package With Outstanding Insulation,
 Which Can Be Installed to The Heat Sink With One Screw
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

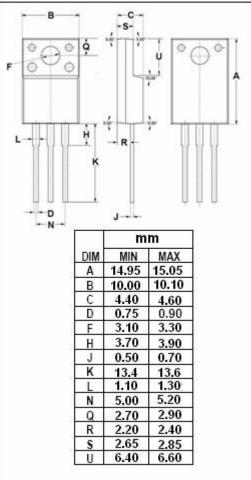
APPLICATIONS

 Designed for low-voltage switching and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	V		
Vceo	Collector-Emitter Voltage	-20	V	
V_{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous	-4	Α	
Ісм	Collector Current-Peak -8		Α	
	Collector Power Dissipation @ Ta=25℃	2	W	
Pc	Collector Power Dissipation @ Tc=25°C	25	W	
T _J	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SB1603

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

10-20 C dill	ess offici wise specified						
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	$I_{C} = -10$ mA, $I_{B} = 0$	-20			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -2A; I _B = -0.1A			-0.5	V	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -2A; I _B = -0.1A			-1.5	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-50	μ А	
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μА	
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -2V	45				
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -2V	90		260		
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A; V _{CE} = -5V;f=10MHz		150		MHz	
Switching Times							
ton	Turn-on Time			0.3		μ S	
t _{stg}	Storage Time	I _C = -2A; I _{B1} = -I _{B2} = -0.2A,		0.4		μ S	
<u> </u>							

♦ h_{FE-2} Classifications

Q	Р		
90-180	130-260		

Fall Time

0.1

μS



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