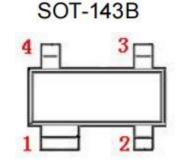


isc Silicon NPN Power Transistor

BFU520

DESCRIPTION

- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 10V(Min.)
- Complement to Type BFU520
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

• Designed for low frequency power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	20	V
Vceo	Collector-Emitter Voltage	10	V
V _{EBO}	Emitter-Base Voltage	2.5	V
Ic	Collector Current-Continuous	0.12	А
Ісм	Collector Current-Peak	0.48	А
Pc	Collector Power Dissipation @ T _c =25℃	0.2	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

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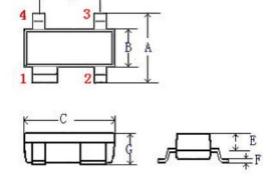
ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	Ic= 1 μ A ; I _E = 0	20			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 10V; I _E = 0			0.1	μА
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 1V; I _C = 0			0.1	μА
h _{FE}	DC Current Gain	I _C = 15mA; V _{CE} = 5V	90	150	250	
Сов	Output Capacitance	V _{CB} =8V,I _E =0mA,f=1MHz		0.65		pF
f⊤	Current-Gain—Bandwidth Product	V _{CE} =8V,I _C =40mA,f=1GHz		9		GHz

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



DIM	mm		
DIM	Min	Max	
А	2.4	2.5	
В	1.2	1.4	
С	2.8	3	
D	1.9		
F	0.45	0.55	
G	0.09	0.15	
Н	1.7		



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