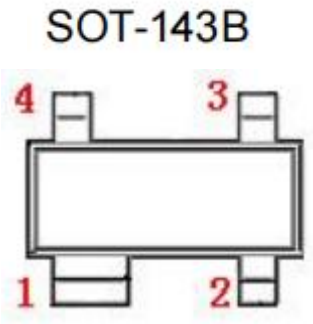
isc Silicon NPN Power Transistor BFU520

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(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	20	V
V_{CEO}	Collector-Emitter Voltage	10	V
V_{EBO}	Emitter-Base Voltage	2.5	V
I_C	Collector Current-Continuous	0.12	A
I_{CM}	Collector Current-Peak	0.48	A
P_C	Collector Power Dissipation @ T_C=25℃	0.2	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-65~150	℃

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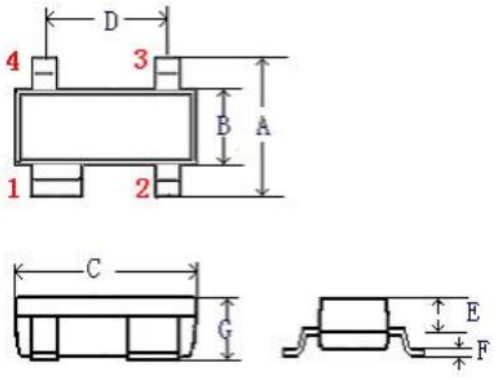
ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 1 μA; I_E= 0	20			V
I_{CBO}	Collector Cutoff Current	V_{CB}= 10V; I_E= 0			0.1	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 1V; I_C= 0			0.1	μA
h_{FE}	DC Current Gain	I_C= 15mA; V_{CE}= 5V	90	150	250	
C_{OB}	Output Capacitance	V_{CB}=8V,I_E=0mA,f=1MHz		0.65		pF
f_T	Current-Gain—Bandwidth Product	V_{CE}=8V,I_C=40mA,f=1GHz		9		GHz

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)



DIM	mm	
	Min	Max
A	2.4	2.5
B	1.2	1.4
C	2.8	3
D	1.9	
F	0.45	0.55
G	0.09	0.15
H	1.7	

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