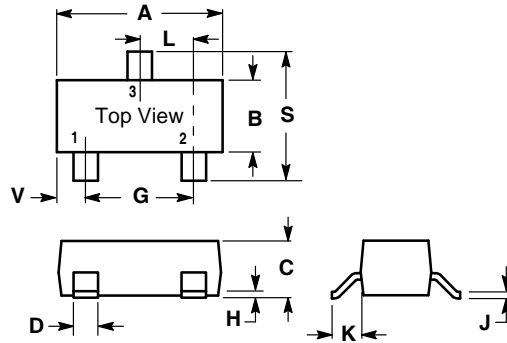
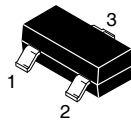
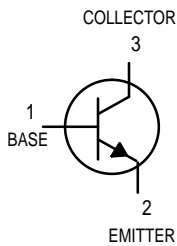


RoHS Compliant Product

**Feature**

- Low Cob. Cob = 2.0 pF (Typ.)
- Complements the 2SA1576A



SOT-323		
Dim	Min	Max
A	1.800	2.200
B	1.150	1.350
C	0.800	1.000
D	0.300	0.400
G	1.200	1.400
H	0.000	0.100
J	0.100	0.250
K	0.350	0.500
L	0.590	0.720
S	2.000	2.400
V	0.280	0.420
All Dimension in mm		

**Marking Code: 5BX**  
X = hFE Rank Code

**Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	60	V
Collector to Emitter Voltage	VCEO	50	V
Emitter to Base Voltage	VEBO	7	V
Collector Current	IC	150	mA
Total Power Dissipation	PD	225	mW

**Characteristics at Ta = 25°C**

Parameter	Symbol	Min	Typ.	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BVCBO	60	-	-	V	IC=50uA
Collector-Emitter Breakdown Voltage	BVCEO	50	-	-	V	IC=1mA
Emitter-Base Breakdown Voltage	BVEBO	7	-	-	V	IE=50uA
Collector-Emitter Breakdown Voltage	ICBO	-	-	100	nA	VCB=60V
Emitter-Base Cutoff Current	IEBO	-	-	100	nA	VEB=7V
Collector Saturation Voltage 1	VCE(sat)	-	-	400	mV	IC=50mA, IB=5mA
DC Current Gain	hFE	120	-	560	-	VCE=6V, IC=1mA
Gain-Bandwidth Product	fT	-	180	-	MHz	VCE=-12V, IC=2mA, f=100MHz
Output Capacitance	Cob	-	2	3.5	pF	VCB=-12V, f=1MHz, IE=0

\*Pulse Test: Pulse Width = 380us, Duty Cycle ≤ 2%

**Classification of hFE**

Rank	Q	R	S
Range	120 - 270	180 - 390	270 - 560

**Characteristics Curve**

