

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High DC Current Gain. h_{FE} : 200 (Typ.) ($V_{CE} = -1V, I_C = -100mA$)
- Complimentary to 2SD596

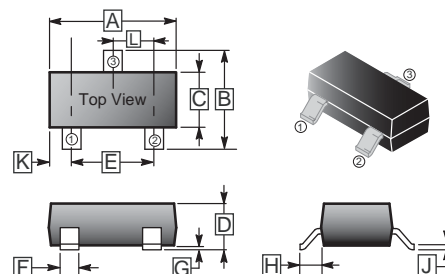
MARKING

Product-Rank	2SB624-BV1	2SB624-BV2	2SB624-BV3
Range	110~180	135~220	170~270
Product-Rank	2SB624-BV4	2SB624-BV5	
Range	200~320	250~400	

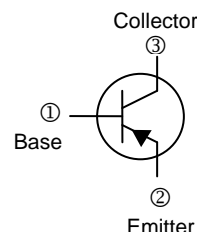
PACKAGE INFORMATION

Package	MPQ	LeaderSize
SOT-23	3K	7' inch

SOT-23



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.80	3.00	G	0.10	REF.
B	2.25	2.55	H	0.55	REF.
C	1.20	1.40	J	0.08	0.15
D	0.90	1.15	K	0.5	REF.
E	1.80	2.00	L	0.95	TYP.
F	0.30	0.50			



ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-700	mA
Collector Power Dissipation	P_C	200	mW
Junction and Storage Temperature	T_J, T_{STG}	150, -55~150	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ C$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-30	-	-	V	$I_C = -100\mu A, I_E = 0$
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	-25	-	-	V	$I_C = -1mA, I_B = 0$
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	$I_E = -100\mu A, I_C = 0$
Collector Cut-off Current	I_{CBO}	-	-	-0.1	μA	$V_{CB} = -30V, I_E = 0$
Emitter Cut-off Current	I_{EBO}	-	-	-0.1	μA	$V_{EB} = -5V, I_C = 0$
DC Current Gain	$h_{FE(1)}$	110	-	400		$V_{CE} = -1V, I_C = -100mA$
	$h_{FE(2)}$	50	-	-		$V_{CE} = -1V, I_C = -700mA$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.6	V	$I_C = -700mA, I_B = -70mA$
Base to Emitter Saturation Voltage	V_{BE}	-0.6	-	-0.7	V	$V_{CE} = -6V, I_C = -10mA$
Transition Frequency	f_T	-	160	-	MHz	$V_{CE} = -6V, I_C = -10mA$
Collector Output Capacitance	C_{ob}	-	17	-	pF	$V_{CB} = -6V, I_E = 0, f = 1MHz$

*Pulse test : Pulse width $\leq 350 \mu s$, Duty Cycle $\leq 2\%$.

CHARACTERISTICS CURVE

