Elektronische Bauelemente

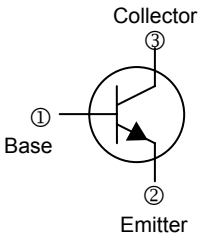
2SC4618

NPN General Purpose Transistor

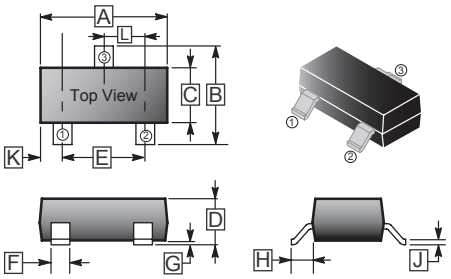
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low collector capacitance
- Low r_{bb}, high gain, and excellent noise characteristics



SOT-523



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	G	0.00	0.15
B	1.45	1.75	H	0.28	0.40
C	0.75	0.85	J	0.10	0.20
D	0.70	0.90	K	-	-
E	0.90	1.10	L	0.75	0.85
F	0.25	0.33			

ABSOLUTE MAXIMUM RATINGS (at T_a = 25°C unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector - Base Voltage	V_{CBO}	40	V
Collector - Emitter Voltage	V_{CEO}	25	V
Emitter - Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	50	mA
Collector Power Dissipation	Pc	0.15	W
Junction, Storage Temperature	T_J, T_{STG}	+150, -55 ~ +150	℃

ELECTRICAL CHARACTERISTICS (at T_a = 25°C unless otherwise specified)

PARAMETER	TEST CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	I_C = 50 μA, I_E = 0	$V_{(BR)CBO}$	40	-	-	V
Collector-Emitter Breakdown Voltage	I_C = 1mA, I_B = 0	$V_{(BR)CEO}$	25	-	-	V
Emitter-Base Breakdown Voltage	I_E = 50 μA, I_C = 0	$V_{(BR)EBO}$	5	-	-	V
Collector Cut-Off Current	V_{CB} = 24 V, I_E = 0	I_{CBO}	-	-	0.5	μA
Emitter Cut-Off Current	V_{EB} = 3 V, I_C = 0	I_{EBO}	-		0.5	μA
Collector-Emitter Saturation Voltage	I_C = 10mA, I_B = 1 mA	$V_{CE(sat)}$	-	-	0.3	V
DC Current Transfer Ratio	V_{CE} = 6V, I_C = 1 mA	h_{FE}	56	-	270	
Transition Frequency	V_{CE} = 6V, I_E = 1 mA, f = 100 MHz	f_T	150	-	-	MHz
Output Capacitance	V_{CE} = 6V, I_E = 0 A, f = MHz	C_{OB}	-	-	2.2	pF

CLASSIFICATION OF h_{FE}

Rank	N	P	Q
Range	56 – 120	82 – 180	120 – 270
Marking	AN	AP	AQ

CHARACTERISTIC CURVES