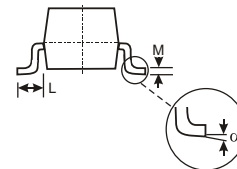
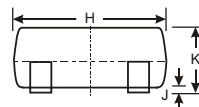
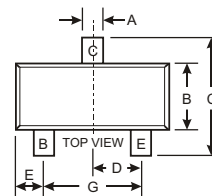


Features

- Complementary to S9015.
- We declare that the material of product compliance with RoHS requirements.
- Marking Code:J6



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	50	V
Collector Emitter Voltage	V_{CEO}	45	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA
Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{Stg}	- 55 to + 150	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

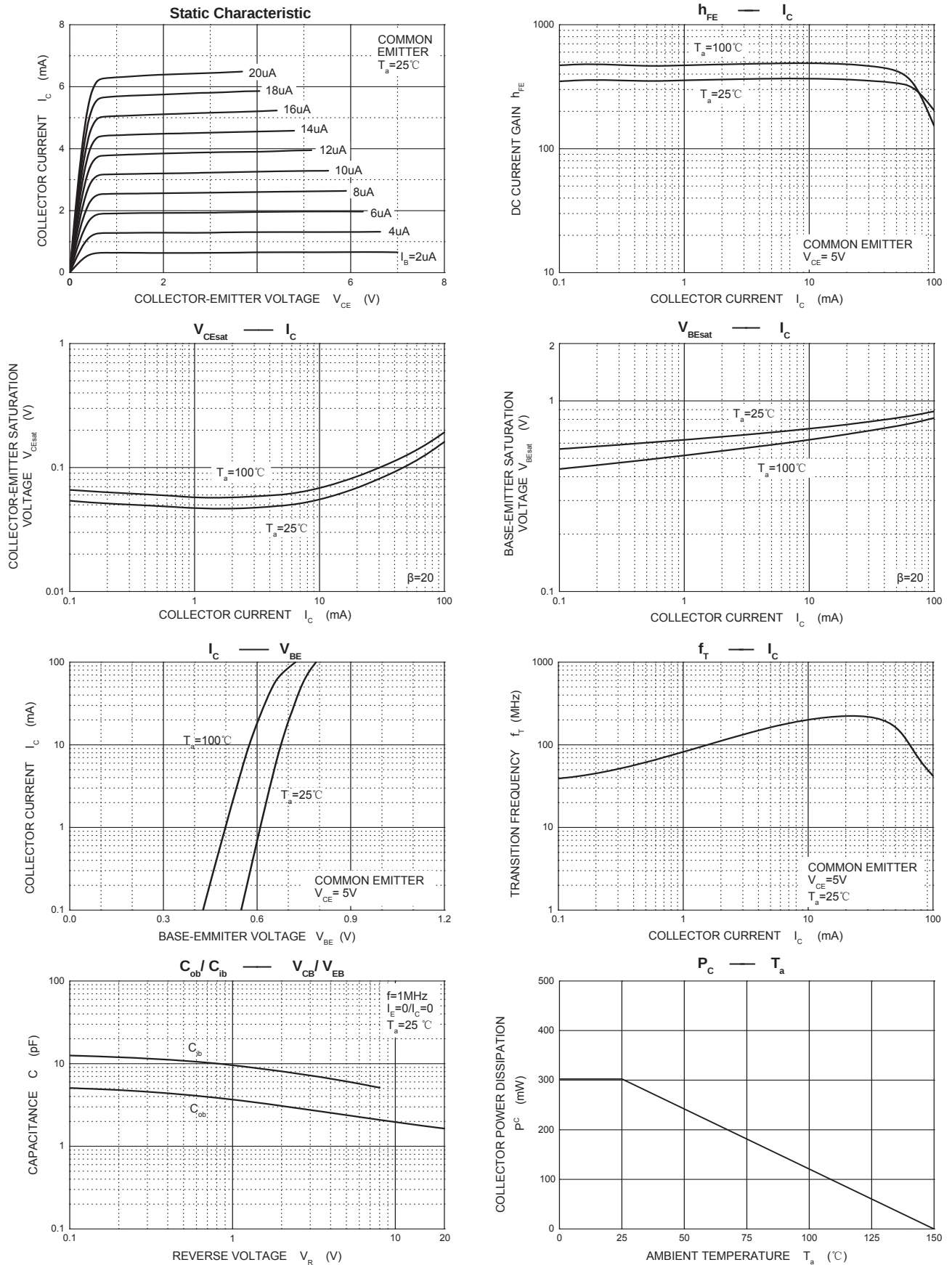
OFF CHARACTERISTICS

Characteristic	Symbol	Min	Typ	Max	Unit
Collector-Emitter Breakdown Voltage ($I_C=1.0\text{mA}$)	$V(BR)_{CEO}$	45	-	-	V
Emitter-Base Breakdown Voltage ($I_E=100\mu\text{A}$)	$V(BR)_{EBO}$	5	-	-	V
Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$)	$V(BR)_{CBO}$	50	-	-	V
Collector Cutoff Current ($V_{CB}=40\text{V}$)	I_{CBO}	-	-	100	nA
Emitter Cutoff Current ($V_{EB}=3\text{V}$)	I_{EBO}	-	-	100	nA

ON CHARACTERISTICS

DC Current Gain ($I_C=1\text{mA}$, $V_{CE}=5\text{V}$)	S9014B	HFE	100	-	220	
	S9014C	HFE	200	-	450	
	S9014D	HFE	400	-	800	
Collector-Emitter Saturation Voltage ($I_C=100\text{mA}$, $I_B=5\text{mA}$)	VCE	-	-	0.3	V	

TYPICAL TRANSIENT CHARACTERISTICS



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