2SC2412

TRANSISTOR (NPN)

Description

Features

- Low Cob ,Cob = 2.0 pF (Typ).
- RoHS compliant package

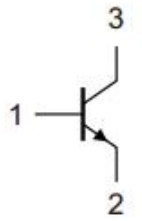
Marking : BQ, BR, BS

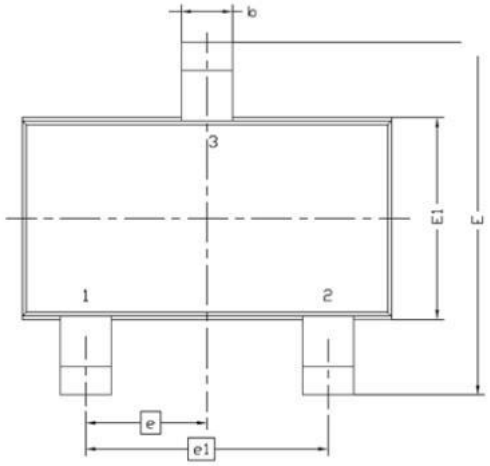
Packing & Order Information

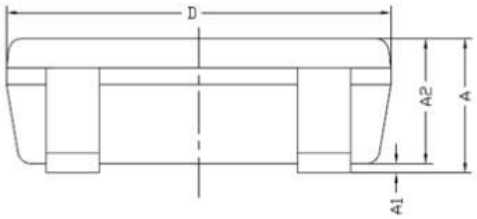
3,000/Reel

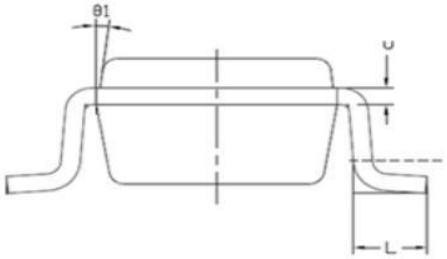
RoHS
COMPLIANT

Graphic symbol









Symbol	MILLIMETERS	
	MIN	MAX
A	0.8	1.2
A1	0	0.1
A2	0.7	1.1
b	0.3	0.5
c	0.1	0.2
D	2.7	3.1
E	2.6	3
E1	1.4	1.8
e	0.95 BSC	
e1	1.9 BSC	
L	0.3	0.6
θ1	7° NOM	

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (Ta=25˚C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current	150	mA
P_C	Collector Dissipation	200	mW
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature Range	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25˚C unless otherwise specified

Symbol	Parameter	Test Conditions	MIN	TYP	MAX	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	I_C = 50μA , I_E = 0	60			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	I_C = 1 mA , I_B = 0	50			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	I_E = 50μA , I_C = 0	7			V
I_{CBO}	Collector cut-off current	V_{CB} = 60 V , I_E = 0			0.1	μA
I_{EBO}	Emitter cut-off current	V_{EB} = 7 V , I_C = 0			0.1	μA
h_{FE}	DC current gain	V_{CE} = 6 V , I_C = 1 mA	120		560	
$V_{CE(sat)}$	Collector-emitter saturation voltage	I_C = 50 mA , I_B = 5 mA			0.4	V
f_T	Transition frequency	V_{CE} = 12 V , I_C = -2 mA f = 1.0MHz		160		MHz
C_{ob}	Collector output capacitance	V_{CB} = 12 V , I_E = 0 f = 1.0MHz		2	3.5	pF

CLASSIFICATION OF h_{FE}

Marking	BQ	BR	BS
Rank	**Q**	**R**	**S**
Range	120-170	180-390	270-560

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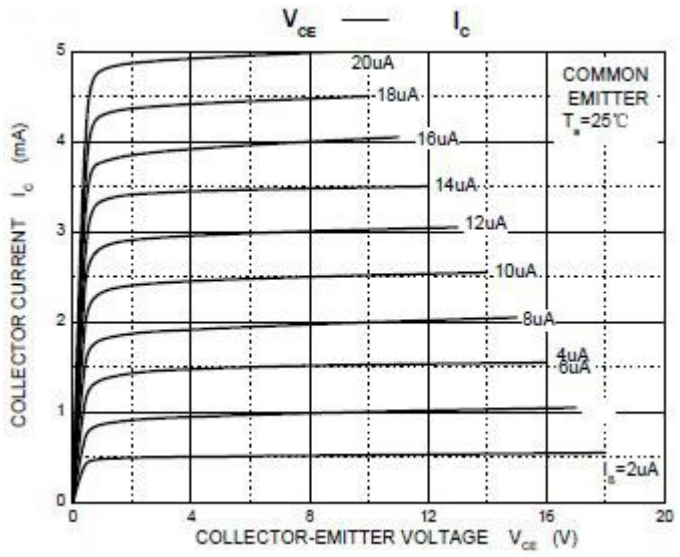
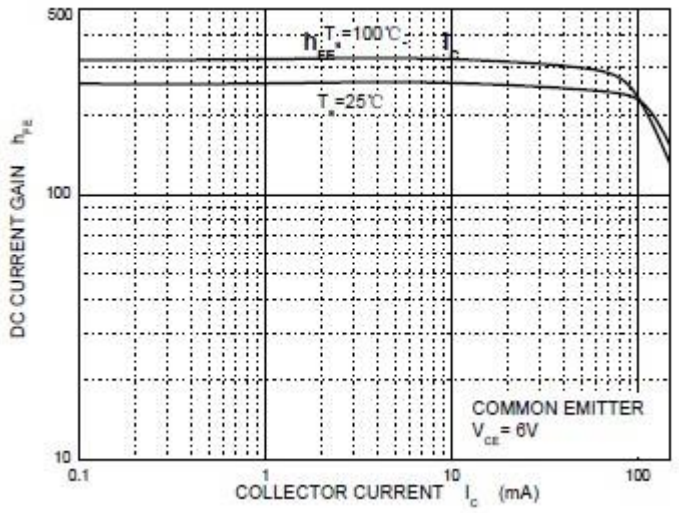
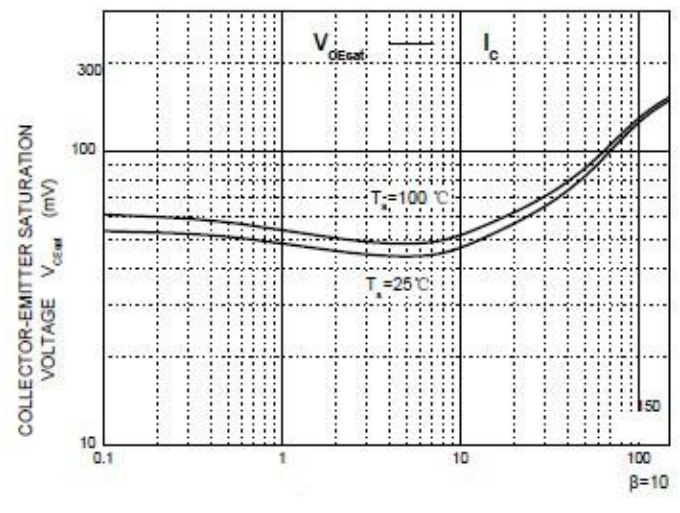
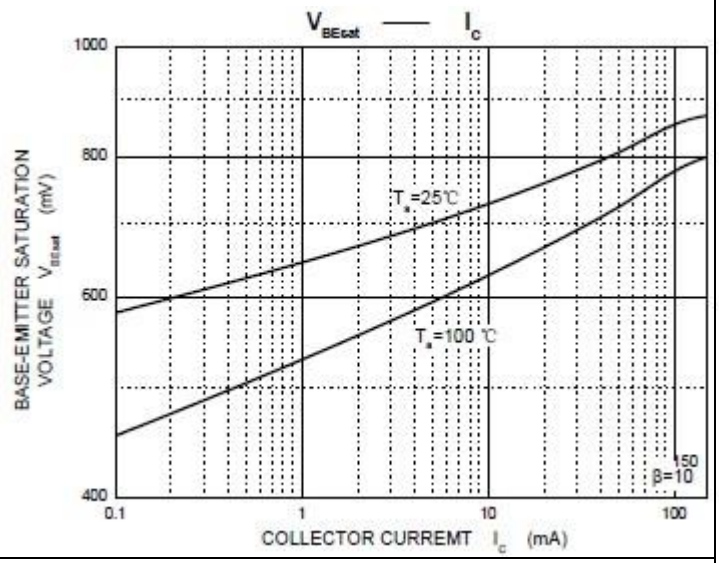
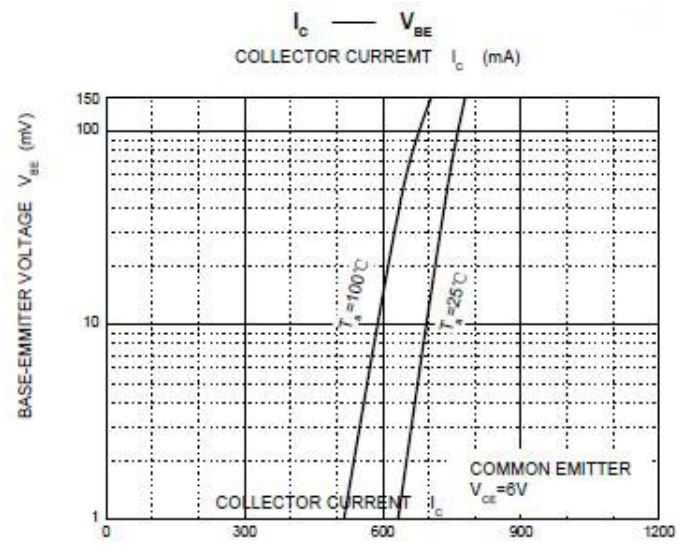
■Typical Characterisitics

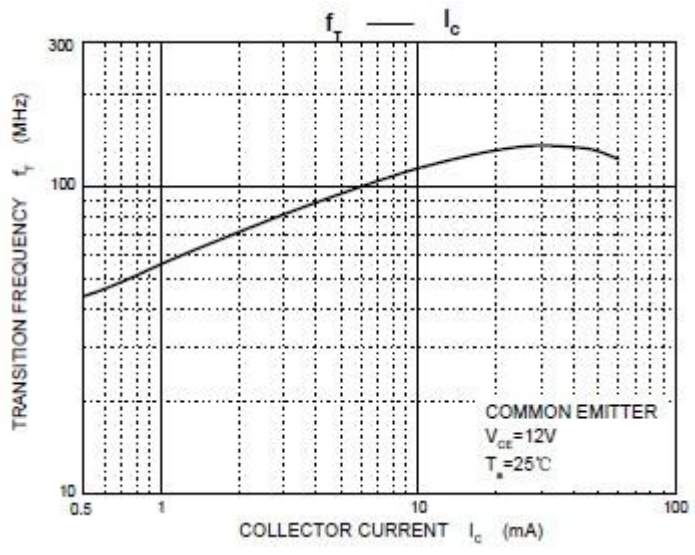












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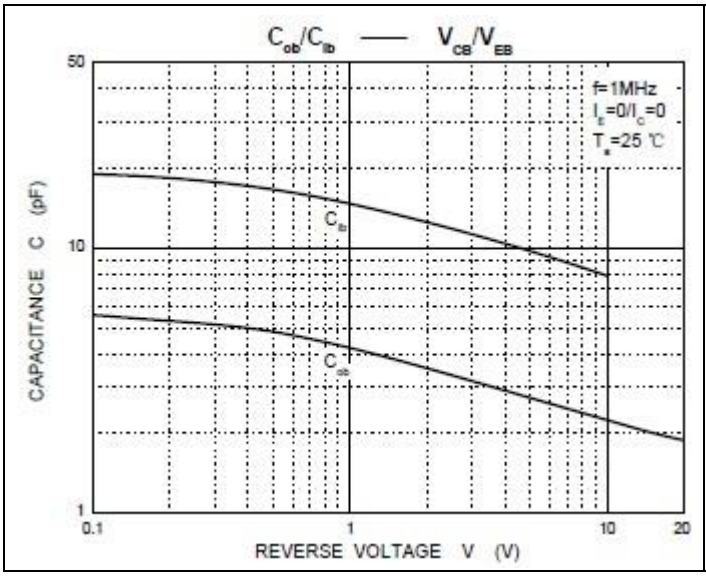
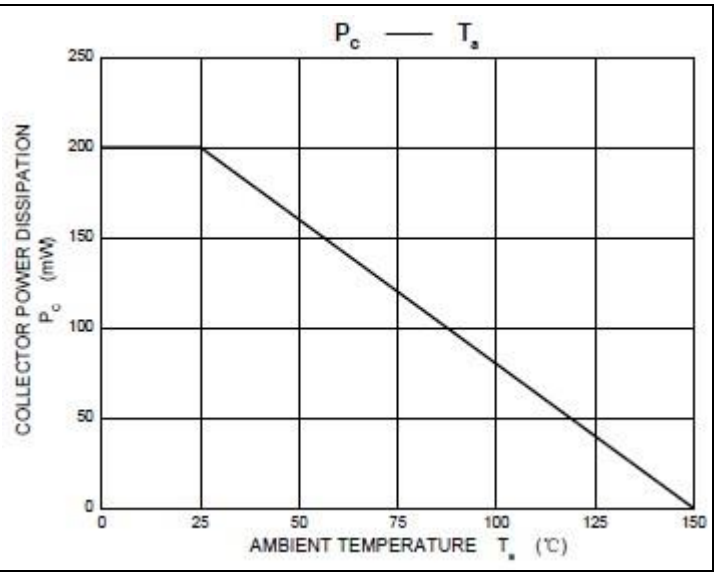
■Typical Characterisitics





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