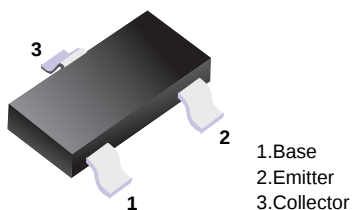
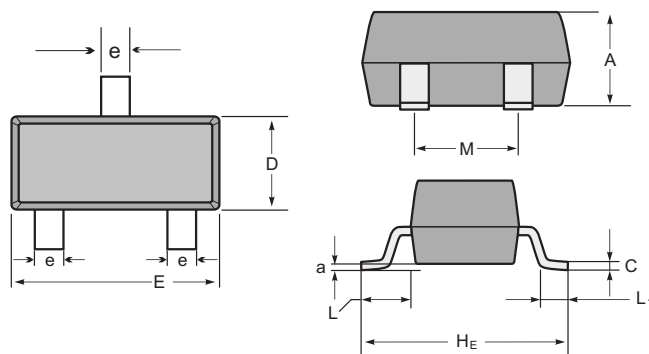


■ Features

- Low $C_{ob}, C_{cb}=2.0pF$ (Typ.)



■ Simplified outline(SOT-23)



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

■ Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	0.15	A
Collector power dissipation	P_C	0.2	W
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature	T_{stg}	-55 to +150	$^{\circ}C$

2SC2412

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _C = 50 μ A, I _E = 0	60			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 1 mA, I _B = 0	50			
Emitter - base breakdown voltage	V _{EB0}	I _E = 50 μ A, I _C = 0	7			
Collector-base cut-off current	I _{CBO}	V _{CB} = 60 V , I _E = 0			100	nA
Emitter cut-off current	I _{EBO}	V _{EB} = 7V , I _C =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50 mA, I _B =5mA			0.4	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =50 mA, I _B =5mA			1.2	
DC current gain	h _{FE}	V _{CE} = 6V, I _C = 1mA	120		560	
Collector output capacitance	C _{ob}	V _{CB} = 12V, I _E = 0,f=1MHz		2	3.5	pF
Transition frequency	f _T	V _{CE} = 12V, I _E = -2mA,f=100MHz	80			MHz

■ hFE Classification

Type	2SC2412/K-Q	2SC2412/K-R	2SC2412/K-S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

RATING AND CHARACTERISTIC CURVES (2SC2412)

