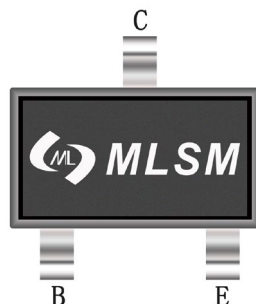
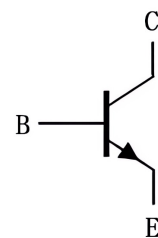


Features

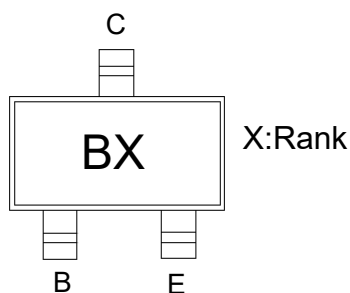
- Low C_{ob} , $C_{ob} = 2.0$ pF (Typ).



SOT-23-3L top view



Schematic diagram



Marking and pin assignment



Halogen-Free

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 Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	312.5	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

Ordering Information (Example)

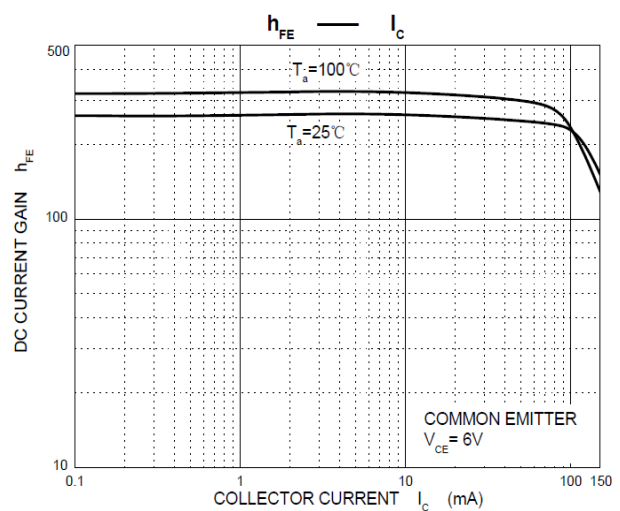
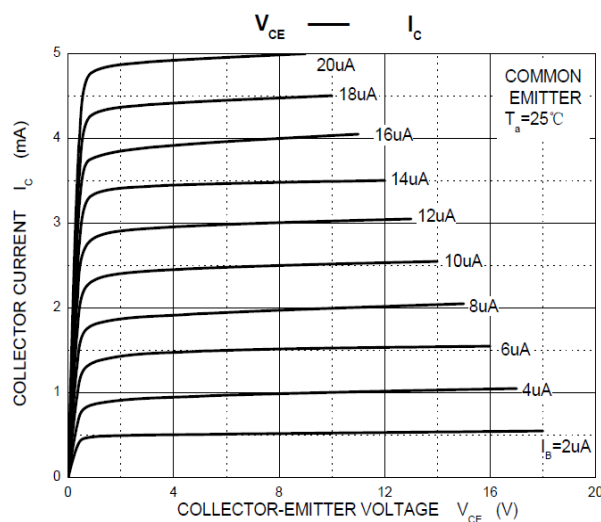
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
2SC2412K	SOT-23-3L	BQ/BR/BS	3,000	45,000	180,000	7"reel

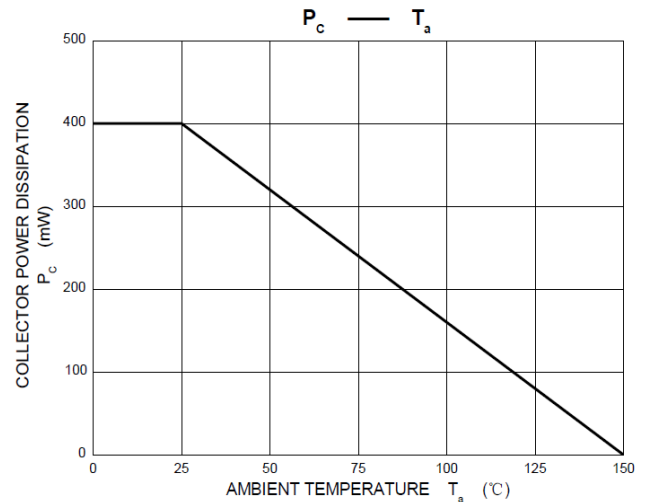
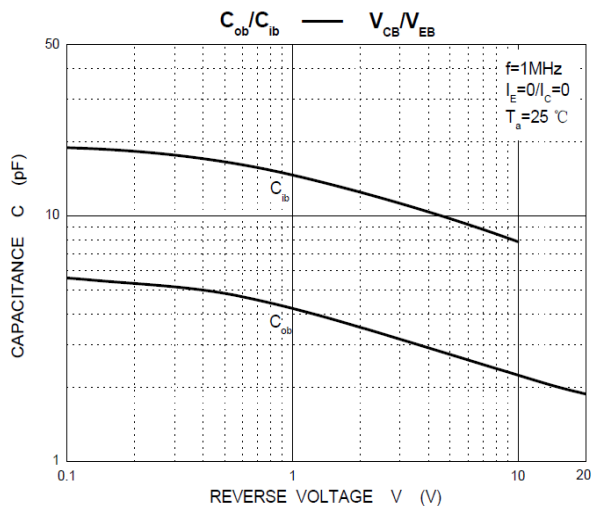
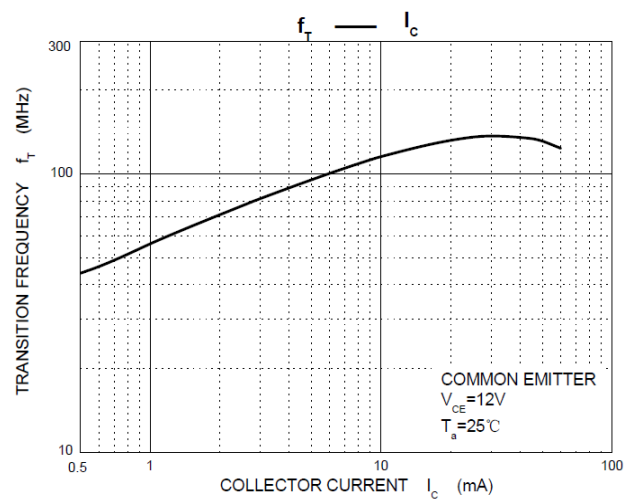
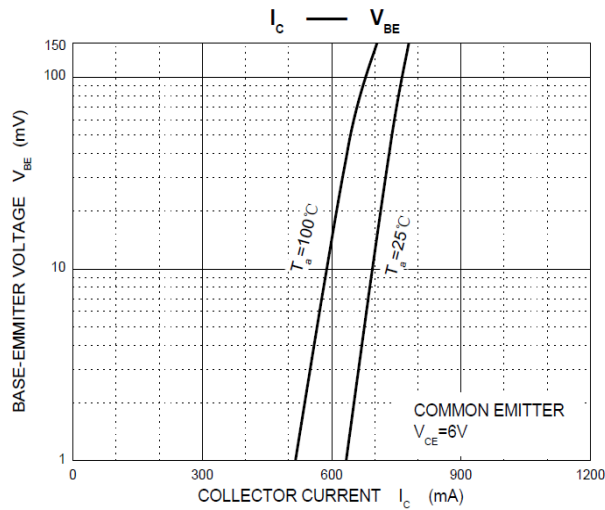
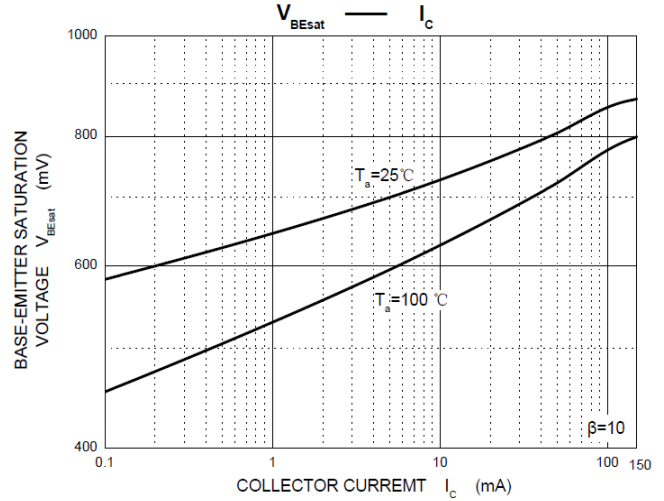
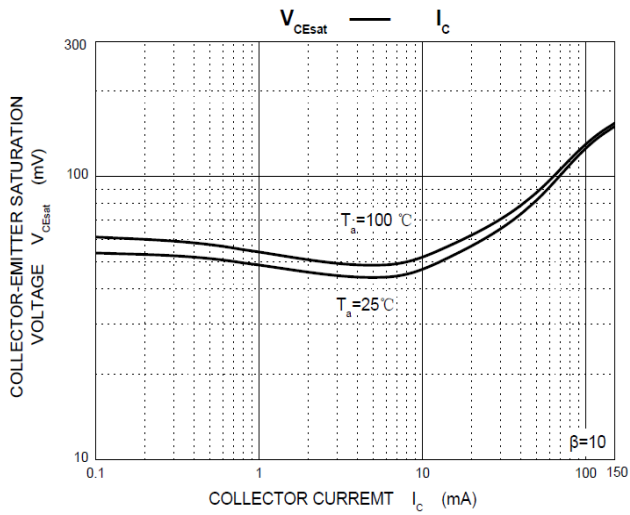
Electrical Characteristics (Ta=25°C unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=50\mu A, I_E=0$	60	--	--	V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=1mA, I_B=0$	50	--	--	V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=50\mu A, I_C=0$	7	--	--	V
I_{CBO}	Collector cut-off current	$V_{CB}=60V, I_E=0$	--	--	0.1	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=7V, I_C=0$	--	--	0.1	μA
H_{FE}	DC current gain	$V_{CE}=6V, I_C=1mA$	120	--	560	--
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=50mA, I_B=5mA$	--	--	0.4	V
C_{ob}	Collector output capacitance	$V_{CB}=12V, I_E=0, f=1MHz$	--	2.0	3.5	pF
f_T	Transition frequency	$V_{CE}=12V, I_C=2mA, f=100MHz$	--	150	--	MHz

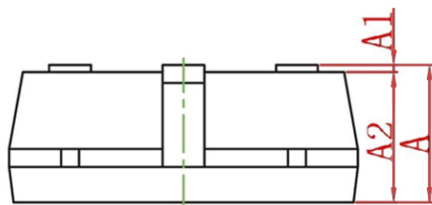
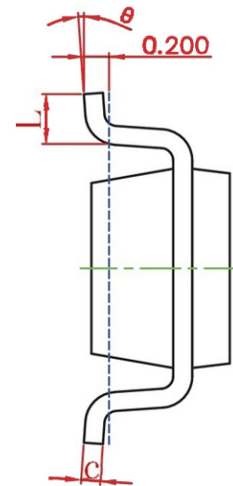
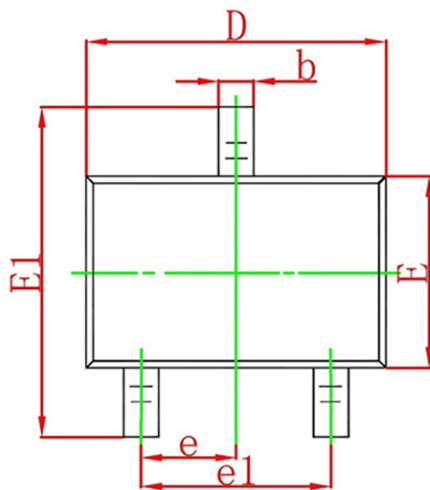
Classification of h_{FE}

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

Typical Operating Characteristics




SOT-23-3L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.042	0.050
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.042	0.046
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.112	0.120
E	1.500	1.700	0.060	0.068
E1	2.650	2.950	0.106	0.118
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°