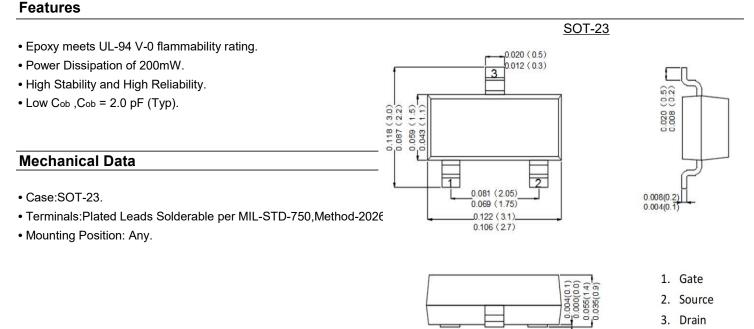


#### NPN Plastic-EncapsulateTransistors



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Dimensions in inches and (millimeters)

#### **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^\circ\!\!\mathbb{C}$  ambient temperature unless otherwise specified.

Parameter	Symbol	Value	UNIT
Collector-Base Voltage	Vсво	60	V
Collector-Emitter Voltage	Vceo	50	V
Emitter-Base Voltage	Vево	7	V
Collector Current	lc	150	mA
Collector Power Dissipation	Pc	200	mW
Thermal Resistance From Junction To Ambient	Reja	625	°C/W
Junction Temperature	TJ	150	Ĉ
Storage Temperature	Тѕтс	-55~ +150	Ĉ

#### **Electrical Characteristics**

#### Rating at $25^{\circ}$ ambient temperature unless otherwise specified.

Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Collector-base breakdown voltage	V(BR) CBO	Ic=50µA,IE=0 60				V
Collector-emitter breakdown voltag	V(BR) CEO	Ic=1mA,Iв=0 50				V
Emitter-base breakdown voltage	V(BR) EBO	Iε=50μA,Ic=0 7				V
Collector cut-off current	Ісво	Vcb=60V,IE=0			0.1	uA
Emitter cut-off current	Іево	VEB=7V,Ic=0			0.1	uA
DC current gain	hfe	/ce=6V,Ic=1mA 120			560	
Collector-emitter saturation voltage	Vce(sat)	Ic=50mA,IB=5mA			0.4	V
Transition frequency	f⊤	Vce=12V,Ic=-2mA,f=100MHz 1		160		MHz
Collector output capacitance	Cob	Vcb=12V,IE=0,f=1MHz		2.0	3.5	pF

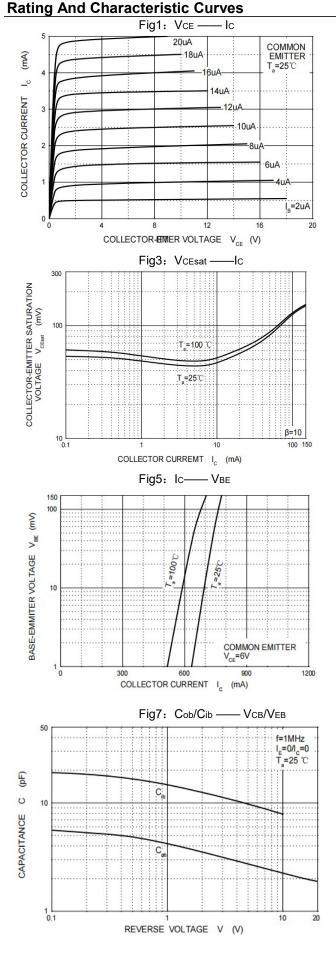
#### CLASSIFICATION OF hFE

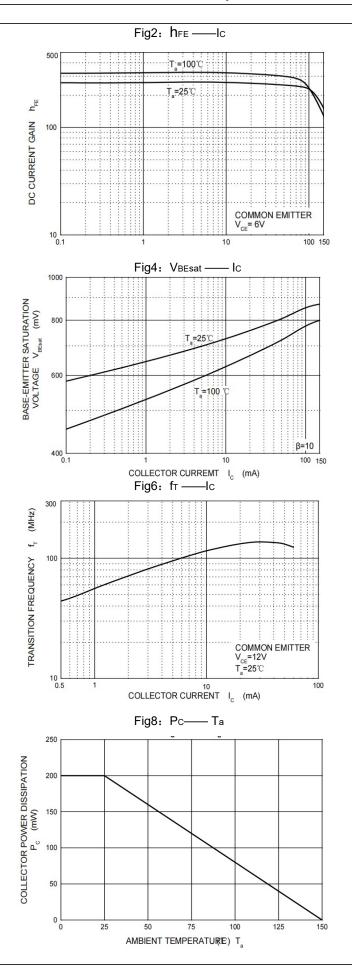
Rank	Q	R	S
Range	120 - 270	180 - 390	270 - 560
Marking	BQ	BR	BS



# 2SC2412

#### NPN Plastic-EncapsulateTransistors





### NPN Plastic-EncapsulateTransistors

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