Transistors

2SC6037J

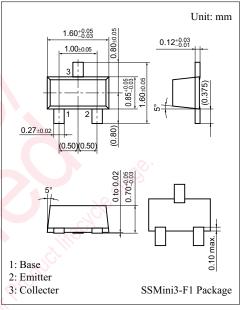
Silicon NPN epitaxial planar type

For general amplification Complementary to 2SA2161J

Features

- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Symbol	Rating	Unit					
V _{CBO}	15	V					
V _{CEO}	12	V					
V _{EBO}	5	V					
I _C	500	mA					
I _{CP}	1	Α					
P _C	125	mW					
T _j	125	°C					
T _{stg}	-55 to +125	°C					
	Symbol V _{CBO} V _{CEO} I _C I _{CP} P _C T _j	$\begin{array}{ c c c c } \hline Symbol & Rating \\ \hline V_{CBO} & 15 \\ \hline V_{CEO} & 12 \\ \hline V_{EBO} & 5 \\ \hline I_C & 500 \\ \hline I_{CP} & 1 \\ \hline P_C & 125 \\ \hline T_j & 125 \\ \hline \end{array}$					



Marking Symbol : 4U

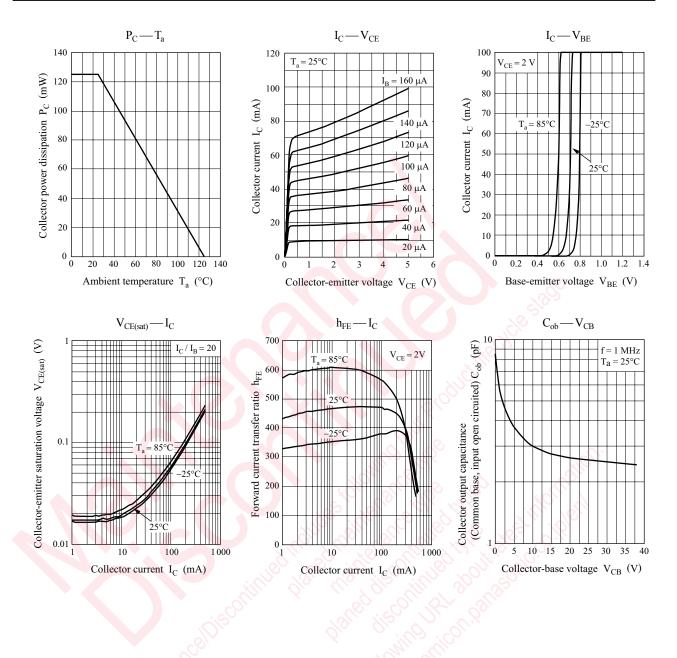
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \mu{\rm A}, I_{\rm E} = 0$	15			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	12	0		V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, I_{\rm C} = 0$	605			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 10 \text{ V}, I_E = 0$			0.1	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 2 \text{ V}, I_C = 10 \text{ mA}$	270		680	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 200 {\rm mA}, I_{\rm B} = 10 {\rm mA}$			250	mV
Transition frequency	f _T	$V_{CB} = 2 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 V, f = 1 MHz$		4.5		pF

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2SC6037J

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