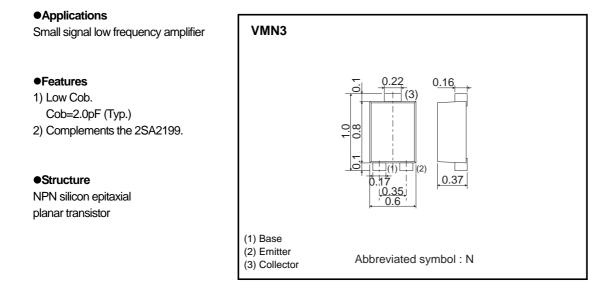
Small signal low frequency amplifier (50V, 100mA) 2SC6114



•Dimensions (Unit : mm)

Absolute maximum (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	50	V	
Collector-emitter voltage	Vceo	50	V	
Emitter-base voltage	Vebo	5	V	
Collector current	lc	100	mA	
Collector current	Icp *1	200		
Power dissipation	Pd *2	150	mW	
Junction temperature	Tj	150	°C	
Range of storage temperature	Tstg	-55 to +150	°C	

*1 Pw=1ms Single pulse *2 Each terminal mounted on a recommended land



Transistors

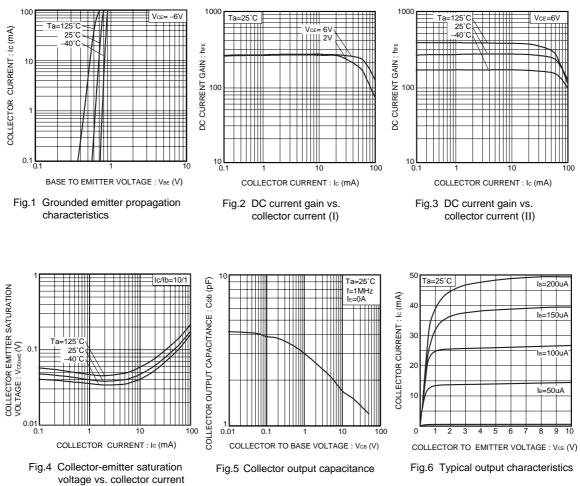
•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVCEO	50	_	-	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Emitter-base breakdown voltage	ВVево	5	_	-	V	Iε=50μA
Collector cutoff current	Ісво	-	_	0.1	μΑ	Vcb=50V
Emitter cutoff current	Іево	-	_	0.1	μΑ	Veb=5V
Collector-emitter saturation voltage	VCE(sat)	-	_	0.3	V	Ic/IB=25mA/2.5mA
DC current gain	hfe	120	-	390	-	Vce=6V, Ic=2mA
Transition frequency	f⊤	_	130	_	MHz	Vce=10V, Ie=-1mA, f=100MHz
Output capacitance	Cob	_	1.0	_	pF	Vce=10V, Ie=0A, f=1MHz

hfe RANK

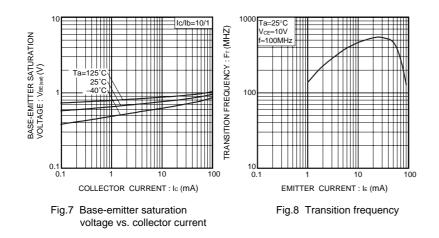
Rank	Q	R
hfe	120 to 270	180 to 390

•Electrical characterristic curves



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Transistors



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