General purpose transistor (isolated dual transistors) IMX9

Features

- 1) Two 2SD2114K chips in a SMT package.
- 2) Mounting possible with SMT3 automatic mounting machine.
- 3) Transistor elements are independent, eliminating interference.
- 4) Mounting cost and area can be cut in half.

Structure

Epitaxial planar type NPN silicon transistor

The following characteristics apply to both Tr1 and Tr2.

● Absolute maximum ratings (Ta = 25°C)

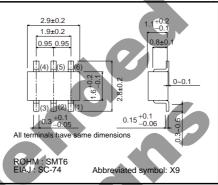
Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	25	V
Collector-emitter voltage	VCEO	20	V
Emitter-base voltage	Vево	12	V
Collector current	lc	500	mA
Power dissipation	Pd	300(TOTAL)	mW *
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

* 200mW per element must not be exceeded

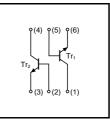
•Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	25	-	-	V	Ic=10μA
Collector-emitter breakdown voltage	BVCEO	20	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	12	_	-	V	Ιε=10μΑ
Collector cutoff current	Ісво	-	_	0.5	μΑ	Vcb=20V
Emitter cutoff current	Іево	-	-	0.5	μΑ	VEB=10V
Collector-emitter saturation voltage	VCE(sat)	-	0.18	0.4	V	Ic/IB=500mA/20mA
DC current transfer ratio	hfe	560	_	2700	-	Vce=3V, Ic=10mA
Transition frequency	fт	-	350	-	MHz	Vce=10V, Ie=-50mA, f=100MHz
Output capacitance	Cob	-	8	_	pF	Vcb=10V, Ie=0A, f=1MHz
Output On-resistance	Ron	-	0.8	-	Ω	IB=1mA, Vi=100mVrms, f=1kHz





Equivalent circuit

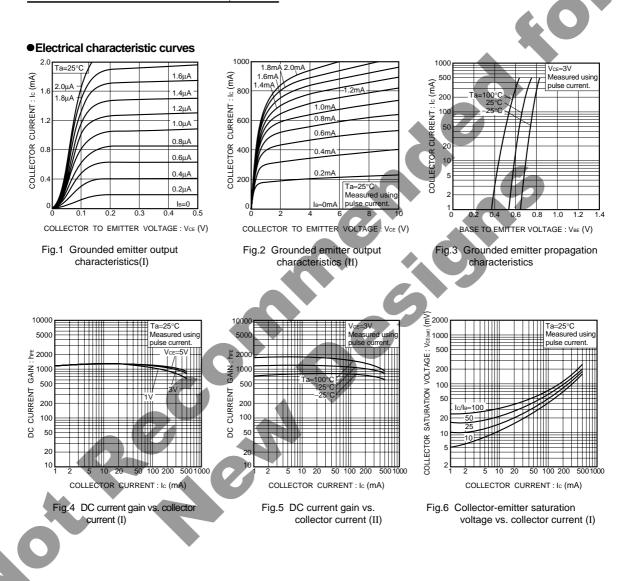




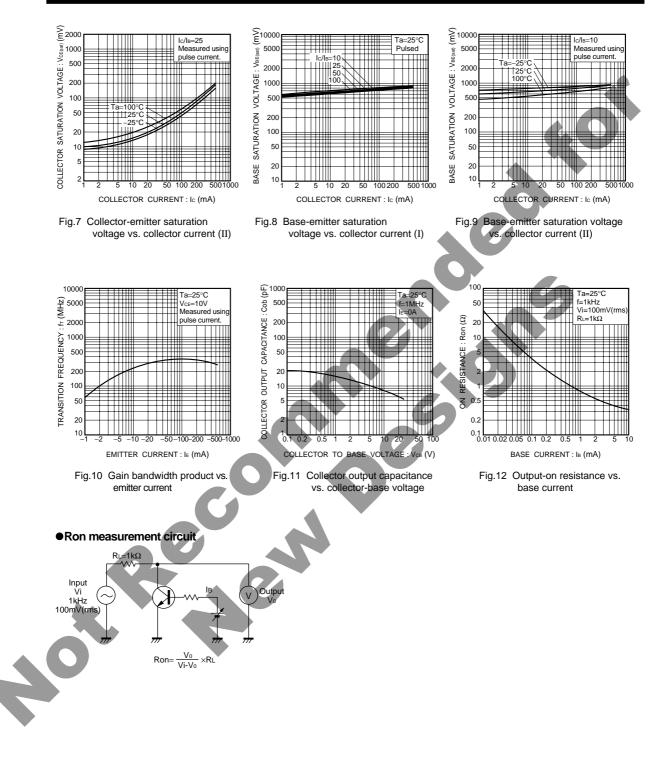
Transistors

Packaging specifications

	Packaging type	Taping
	Code	T110
Part No.	Basic ordering unit (pieces)	3000
IMX9		0



Transistors



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