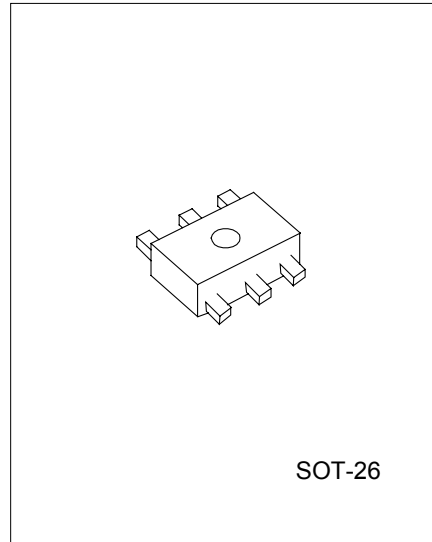
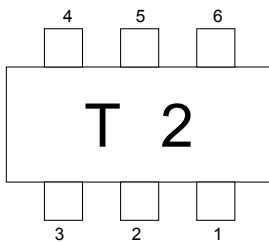


GENERAL PURPOSE DUAL TRANSISTOR

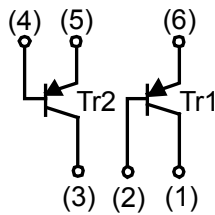
FEATURES

*Two 2SA1037 chips in a SMT package

MARKING



EQUIVALENT CIRCUITS



- PIN 1 : Collector (1) PIN 4 : Base (2)
- PIN 2 : Base (1) PIN 5 : Emitter (2)
- PIN 3 : Collector (2) PIN 6 : Emitter (1)

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ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_c	150	mA
Collector Power Dissipation (total)	P_c	300 (note)	mW
Junction Temperature	T_J	150	°C
Storage Temperature	TSTG	-55~+150	°C

Note: 200mW per element must not be exceeded.

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CB0}	I _c = -50μA	-60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _c = -1mA	-50			V
Emitter-Base Breakdown Voltage	BV _{EB0}	I _E =-50μA	-6			V
Collector Cut-Off Current	I _{CBO}	V _{CB} = -60V			-0.1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = -6V			-0.1	μA
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _c / I _b = -50mA/-5mA			-0.5	V
DC Current Transfer Ratio	h _{FE}	V _{CE} = -6V, I _c = -1mA	120		560	
Transition Frequency	f _t	V _{CE} =-12V, I _E =2mA, f=100MHz (note)		140		MHz
Output Capacitance	C _{ob}	V _{CB} = -12V, I _E =0mA, f=1MHz		4	5	pF

Note: Transition frequency of the device.

CLASSIFICATION OF h_{FE}

RANK	Q	R	S
RANGE	120-270	180-390	270-560

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