(SMALL-SIGNAL TRANSISTOR)

RT1P137P

TRANSISTOR WITH RESISTOR FOR SWITCHING APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

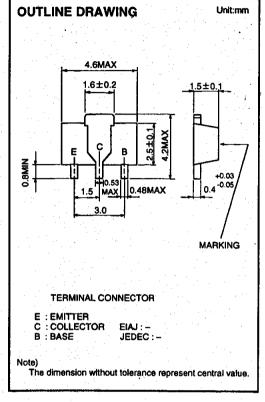
RT1P137P is a one chip transistor with built-in bias resistor, NPN type is RT1N137P.

FEATURE

- Built-in bias resistor (R₁=1kΩ,R₂=22kΩ)
- ●High collector current lc=-1A
- ●Low VCE(sat) VCE(sat)=-0.3Vmax (@IC=-300mA,IB=-3mA)
- ●High collector dissipation Pc=500mW

APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.



EQUIVALENT CIRCUIT BOOK (OUT) R2 (OUT) E (GND) LOT No

MAXIMUM RATINGS (Ta=25°C)

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	-40	V
VEBO	Emitter to Base voltage	-6	V
VCEO	Collector to Emitter voltage	Collector to Emitter voltage -40	
lc	Collector current	-1	A
Ісм	Peak Collector current	-2	Α
Pc	Collector dissipation(Ta=25°C)	500	mW
Tj	Junction temperature	+150	హ
Tatg	Storage temperature	-55 to +150	ઌ

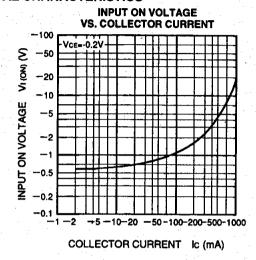
ELECTRICAL CHARACTERISTICS (Ta=25°C)

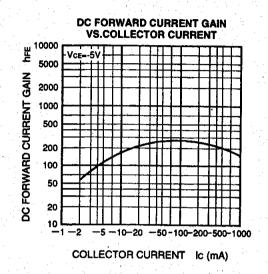
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Ont
V(BR)CEO	C to E break down voltage	Ic=-1mA,RBE=∞	-40			V
Ісво	Collector cut off current	Vcb=-40V,IE=0			-0.1	μА
hfe	DC forward current gain	Vce=-5V,lc=-100mA	100			
VCE(sat)	C to E saturation voltage	Ic=-300mA,is=-3mA		-0.1	-0.3	V
VI(ON)	Input on voltage	Vc==-0.2V,ic=-300mA		-2.4	-4.0	V
VI(OFF)	Input off voltage	VCE=-5V,IC=-100 μ A	0.4	0.53		V
Rt	Input resistor		0.7	1.0	1.3	kΩ
R2/R1	Resistor ratio		20	22	24	
fr	Gain band width product	Vce=-6V,le=10mA		130	<u> </u>	MHz

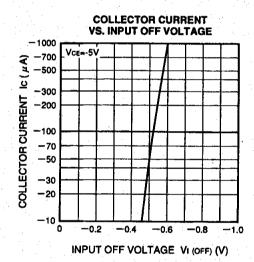
RT1P137P

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TYPICAL CHARACTERISTICS









http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

0-41, ISUKUBA, ISAHATA, NAGASANI, 004-0000, JAPAN

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