RT3P77M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3P77M is a composite transistor built with two RT1P140 in SC-88 package.

FEATURE

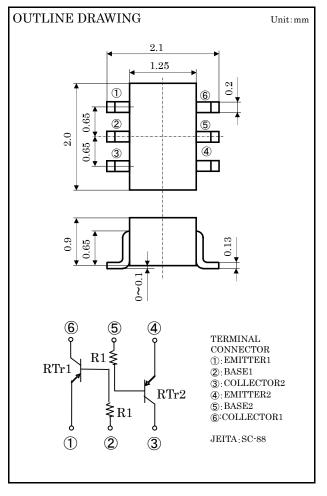
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

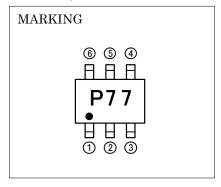
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

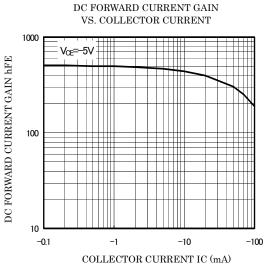
SYMBOL	PARAMETER	RATING	UNIT	
Vcbo	Collector to Base voltage	-50	V	
Vebo	Emitter to Base voltage	-6	V	
$V_{\rm CEO}$	Collector to Emitter voltage	-50	V	
Ic	Collector current	-100	mA	
ICM	Peak Collector current	-200	mA	
Pc	Collector dissipation (Total, Ta=25°C)	150	mW	
Tj	Junction temperature	+150	°C	
$T_{ m stg}$	Storage temperature	-55~+150	°C	

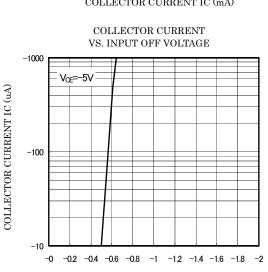


ELECTRICAL CHARACTERISTICS (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

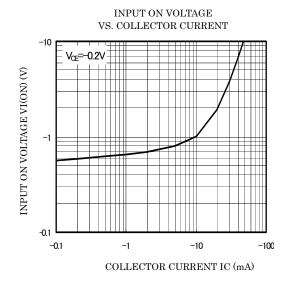
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I c=-100μA, R _{BE} =∞	-50			V
Icbo	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0			-0.1	μA
hfe	DC forward current gain	V _{CE} =-5V, I C=-1mA	100			-
VCE(sat)	Collector to Emitter saturation voltage	I c=-10mA, I B=-0.5mA		-0.1	-0.3	V
R ₁	Input resistor		7	10	13	ΚΩ
f_{T}	Gain band width product	V _{CE} =-6V, I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS (RTr1,RTr2)





INPUT OFF VOLTAGE VI(OFF) (V)





Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

Keep safety first in your circuit designs!

•ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-farmable material or (3) prevention against any malfunction or mishap.

- Notes regarding these materials

 These materials are intended as a reference to our customers in the selection of the ISAHAYA products best suited to the customer's application; they don't convey any license under any intellectual property rights, or any other rights, belonging ISAHAYA or third party.

 - ISAHAYA or third party.

 -ISAHAYA Electronics Corporation assumes no responsibility for any damage, or infringement of any third party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.

 -All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by ISAHAYA Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact ISAHAYA Electronics Corporation or an authorized ISAHAYA products distributor for the latest product information before purchasing product listed
 - herein.
 -ISAHAYA Electronics Corporation products are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact ISAHAYA electronics corporation or an authorized ISAHAYA products distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.
 - The prior written approval of ISAHAYA Electronics Corporation is necessary to reprint or reproduce in whole or in part these
 - If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or re-export contrary to the export control laws and regulations of Japan and/or the country of destination is -Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these
 - materials or the products contained therein.