



PRODUCT NAME : 2SA1207 PNP General Purpose Transistor (Pack of 5)

PRICE : Rs 20.00

SKU : RM2134



NOTE: THE PRODUCT MAY BE DIFFERENT FROM IMAGE SHOWN. Copyrights by Robomart.com

DESCRIPTION

Features

- Collector-Emitter Volt (V_{ce0}): 160V
- Collector-Base Volt (V_{cb0}): 180V
- Collector Current (I_c): 0.07A
- h_{fe} : 100-400 @ 10mA
- Power Dissipation (P_{tot}): 600mW
- Current-Gain-Bandwidth (f_{total}): 150MHz
- Type: PNP

Ordering number: EN 778E

SANYO	No.778E	2SA1207/2SC2909
		PNP/NPN Epitaxial Planar Silicon Transistors High-Voltage Switching, AF 60W Predriver Applications

Features

- Adoption of FBET process.
- High breakdown voltage.
- Excellent linearity of h_{FE} and small c_{ob} .
- Fast switching speed.

(): 2SA1207

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Collector to Base Voltage	V_{CB0}	(-)180	V	unit
Collector to Emitter Voltage	V_{CE0}	(-)160	V	
Emitter to Base Voltage	V_{EB0}	(-)5	V	
Collector Current	I_C	(-)70	mA	
Collector Current(Pulse)	I_{CP}	(-)140	mA	
Collector Dissipation	P_C	600	mW	
Junction Temperature	T_j	150	$^\circ\text{C}$	
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	

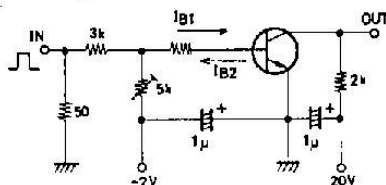
Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)80\text{V}, I_E = 0$			(-)0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4\text{V}, I_C = 0$			(-)0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = (-)5\text{V}, I_C = (-)10\text{mA}$	100*		400*	
Gain-Bandwidth Product	f_T	$V_{CE} = (-)10\text{V}, I_C = (-)10\text{mA}$		150		MHz
Output Capacitance	c_{ob}	$V_{CB} = (-)10\text{V}, f = 1\text{MHz}$	(2.5)2.0			pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)30\text{mA}, I_B = (-)3\text{mA}$		0.08	0.3	V
			(0.14)	(0.4)		
Turn-ON Time	t_{on}	See specified Test Circuit.		0.1		μs
Fall Time	t_f	"		0.2		μs
Storage Time	t_{stg}	"		1.0		μs

* : The 2SA1207/2SC2909 are classified by 10mA h_{FE} as follows :

100 R 200	140 S 280	200 T 400
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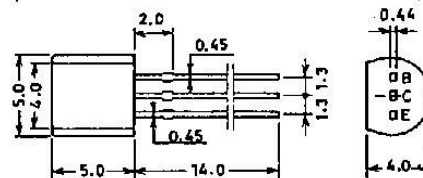
Switching Time Test Circuit



$I_C = 10I_{B1} = -10I_{B2} = 10\text{mA}$
 (For PNP, the polarity is reversed.)

Unit(Resistance : Ω , Capacitance : F)

Package Dimensions 2003A
(unit: mm)



JEDEC: TO-92 B: Base
 EIAJ : SC-43 C: Collector
 SANYO: NP E: Emitter

SANYO Electric Co., Ltd. Semiconductor Business Headquarters
 TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

4190MO/3187AT/2255MY, TS No.778-1/4

