

2SA1270

PNP Silicon Epitaxial Planar Transistor
for switching and general purpose applications.

The transistor is subdivided into two groups O and Y according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



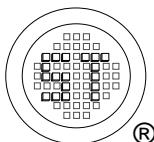
1. Emitter 2. Collector 3. Base
TO-92 Plastic Package

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

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	35	V
Collector Emitter Voltage	$-V_{CEO}$	30	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	500	mA
Base Current	$-I_B$	100	mA
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 1 \text{ V}$, $-I_C = 100 \text{ mA}$	h_{FE}	70	-	140	-
Current Gain Group O Y	h_{FE}	120	-	240	-
at $-V_{CE} = 6 \text{ V}$, $-I_C = 400 \text{ mA}$	h_{FE}	25	-	-	-
	h_{FE}	40	-	-	-
Collector Base Cutoff Current at $-V_{CB} = 35 \text{ V}$	$-I_{CBO}$	-	-	0.1	μA
Emitter Base Cutoff Current at $-V_{EB} = 5 \text{ V}$	$-I_{EBO}$	-	-	0.1	μA
Collector Emitter Saturation Voltage at $-I_C = 100 \text{ mA}$, $-I_B = 10 \text{ mA}$	$-V_{CESat}$	-	-	0.25	V
Base Emitter Voltage at $-V_{CE} = 1 \text{ V}$, $-I_C = 100 \text{ mA}$	$-V_{BE}$	-	-	1.0	V
Transition Frequency at $-V_{CE} = 6 \text{ V}$, $-I_C = 20 \text{ mA}$	f_T	-	200	-	MHz
Collector Output Capacitance at $-V_{CB} = 6 \text{ V}$, $f = 1 \text{ MHz}$	C_{ob}	-	13	-	pF



SEMTECH ELECTRONICS LTD.



ISO/TS 16949 : 2009
Certificate No. 160713000



ISO 14001 : 2004
Certificate No. 7116



ISO 9001 : 2008
Certificate No. 50719410



BS-OHSAS 18001 : 2007
Certificate No. 7116



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