



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

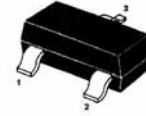
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

S9012LT1

PNP Epitaxial Silicon Transistor

- Complement to S9013LT1
- Collector Current: $I_C = -500\text{mA}$
- High Total Poer Dissipation: $P_c = 225\text{mW}$



1. Base 2. Emitter 3. Collector
SOT-23 Plastic Package

Absolute Maximum Ratings $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Characteristic	Value	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EB}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-500	mA
P_D	Collector Dissipation $T_a = 25^\circ\text{C}^*$	225	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55~150	$^\circ\text{C}$

Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Characteristic	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -100\ \mu\text{A}, I_E = 0$	-40			V
BV_{CEO}	Collector-Emitter Breakdown Voltage [#]	$I_C = -1\text{mA}, I_B = 0$	-20			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -100\ \mu\text{A}, I_C = 0$	-5			V
I_{CBO}	Collector-Base Cutoff Current	$V_{CB} = -25\text{V}, I_E = 0\text{V}$			-100	$\eta\ \text{A}$
I_{EBO}	Emitter-Base Cutoff Current	$V_{EB} = -3\text{V}, I_C = 0$			-100	$\eta\ \text{A}$
h_{FE}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -50\text{mA}$				
	Group G		110		183	
	Group H		177		250	
	Group I		250		380	
h_{FE}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -500\text{mA}$	30			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -50\text{mA}$		-0.18	-0.6	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -50\text{mA}$		-0.95	-1.2	V
$V_{BE(ON)}$	Base-Emitter On Voltage	$V_{CE} = -1\text{V}; I_C = -10\text{mA}$	-0.6	-0.67	-0.7	V

Marking : J6(Group)

* Total Device Dissipation : $FR = 1 \times 0.75 \times 0.062$ in Board, Derate 25°C

Pulse Test : Pulse Width $\leq 300\ \mu\text{s}$, Duty cycle $\leq 2\%$



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