



**FUKUCOM COMPANY LTD.**

**福 靈 有 限 公 司**

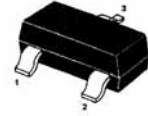
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

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

### SS8050 L/H

#### NPN Epitaxial Silicon Transistor

- Complement to SS8550 L/H
- Collector Current:  $I_C=800\text{mA}$
- High Total Poer Dissipation:  $P_c=625\text{mW}$



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	25	V
$V_{EB}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current	800	mA
$P_D$	Collector Dissipation $T_a=25^\circ\text{C}$ *	625	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	$I_C=1\text{mA}$ , $I_B=0$	25			V
$BV_{EBO}$	Emitter-Base Breakdown Voltage	$I_E=100\ \mu\text{A}$ , $I_C=0$	6			V
$I_{CBO}$	Collector-Base Cutoff Current	$V_{CB}=40\text{V}$ , $I_E=0\text{V}$			100	$\eta\ \text{A}$
$I_{CEO}$	Collector-Emitter Cutoff Current	$V_{CE}=20\text{V}$ ; $I_E=0$			100	$\eta\ \text{A}$
$I_{EBO}$	Emitter-Base Cutoff Current	$V_{EB}=5\text{V}$ , $I_C=0$			100	$\eta\ \text{A}$
$h_{FE}$	DC Current Gain	$V_{CE}=1\text{V}$ , $I_C=100\text{mA}$				
	Group L		120		200	
	Group H		200		350	
$h_{FE}$	DC Current Gain	$V_{CE}=1\text{V}$ , $I_C=800\text{mA}$	40			
$V_{CE}(\text{sat})$	Collector-Emitter Saturation Voltage	$I_C=800\text{mA}$ , $I_B=80\text{mA}$			0.6	V
$V_{BE}(\text{sat})$	Base-Emitter Saturation Voltage	$I_C=800\text{mA}$ , $I_B=80\text{mA}$			1.2	V
$f_T$	Current Gain-Bandwidth Product	$V_{CE}=10\text{V}$ , $I_C=50\text{mA}$ ; $F=30\text{MHz}$	100			MHz

Marking : Y1

\* Total Device Dissipation :  $FR=1 \times 0.75 \times 0.062$  in Board, Derate  $25^\circ\text{C}$

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



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