### S8550 SOT-23 Plastic-Encapsulate Transistors



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	-40	V
Collector-Emitter Voltage	VCEO	-25	V
Emitter -Base Voltage	Vebo	-5	V
Collector Current-Continuous	lc	-500	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55-+150	°C
Thermal resistance From junction to ambient	Reja	417	°C/W

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Symbols	Test Condition	Limits		Unit
i didifictor	Symbols Test Condition		Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=-100uA, IE=0	-40		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=-1mA, IB=0	-25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100uA, IC=0	-5		V
Collector cut-off current	ICEO	VCE=-20V, IB=0		-100	nA
Collector cut-off current	Ісво	VCB=-40V, IE=0		-100	nA
Emitter cut-off current	IEBO	VEB=-3V, IC=0		-100	nA
DC current gain	hFE(1)	VCE=-1V, IC=-50mA	120	400	
	hFE(2)	VCE=-1V, IC=-500mA	50		
Collector-emitter saturation voltage	VCE(sat)	IC=-500mA, IB=-50mA		-0.60	V
Base -emitter saturation voltage	VBE(sat)	IC=-500mA, IB=-50mA		-1.20	V
Transition frequency	fT	VCE=-6V, IC=-20mA,f=30MHz	150		MHz

#### **CLASSIFICATION OF hFE(1)**

RANK	L	Н	J
RANGE	120-200	200-350	300-400



## **RATINGS AND CHARACTERISTIC CURVES S8550**

### **Typical Characteristics**





### **RATINGS AND CHARACTERISTIC CURVES S8550**



#### SOT-23 PACKAGE OUTLINE Plastic surface mounted package



### Precautions: PCB Design

Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs



Note: 1.Controlling dimension: In millimeters, 2.General tolerance: ± 0.05mm.

3. The pad layout is for reference purposes only.



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