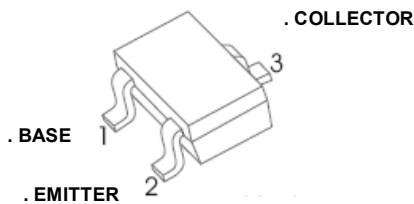


### FEATURES

- Collector Current.( $I_C= 1.5A$ )
- Complementary To SS8050W.
- Collector Dissipation:  $P_C=0.2W$  ( $T_C=25^\circ C$ )

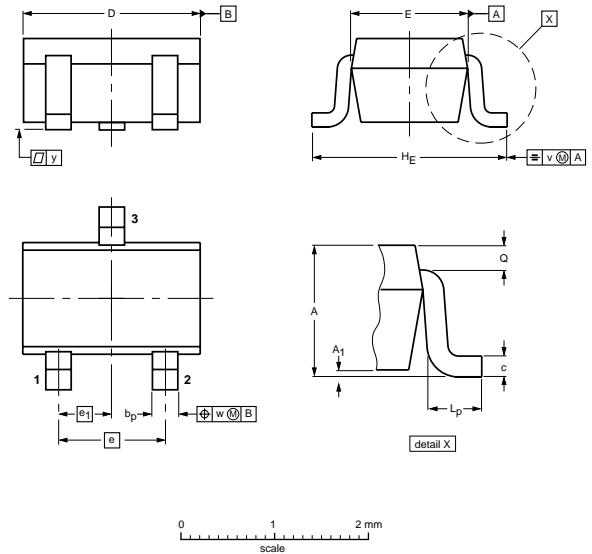
### APPLICATIONS

High Collector Current.



**SOT - 323**

### SOT-323



**DIMENSIONS (mm are the original dimensions)**

UNIT	A	A <sub>1</sub> max	b <sub>p</sub>	c	D	E	e	e <sub>1</sub>	H <sub>E</sub>	L <sub>p</sub>	Q	v	w
mm	1.1 0.8	0.1	0.4 0.3	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.23 0.13	0.2	0.2

### Absolute Maximum Ratings $T_a = 25^\circ C$

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-40	V
$V_{CEO}$	Collector-Emitter Voltage	-25	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-1.5	A
$P_C$	Collector Dissipation	0.2	W
$T_j, T_{stg}$	Junction and Storage Temperature	-55~150	$^\circ C$

## SS8550W

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-0.1mA, I_B=0$	-25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu A, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-40V, I_E=0$			-0.1	$\mu A$
Collector cut-off current	$I_{CEO}$	$V_{CE}=-20V, I_B=0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$			-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=-1V, I_C=-100mA$	120		400	
		$V_{CE}=-1V, I_C=-800mA$	30			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-800mA, I_B=-80mA$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-800mA, I_B=-80mA$			-1.2	V
Transition frequency	$f_T$	$V_{CE}=-10V, I_C=-50mA$ $f=30MHz$	100			MHz
Output capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$			20	pF
Base-emitter voltage	$V_{BEF}$	$I_E=-1.5A$			-1.6	V

### CLASSIFICATION OF $h_{FE}$

Rank	L	H	J
Range	120-200	200-350	300-400

## RATING AND CHARACTERISTIC CURVES (SS8550W)

