# MSKSEMI















**ESD** 

TVS

TSS

MOV

GDT

**PLED** 

# Broduct data sheet







1. BASE

2. EMITTER

**SOT - 23** 3. COLLECTOR TRANSISTOR (PNP)

#### **FEATURES**

- Complimentary to S8050-MS
- Collector current: I<sub>C</sub>=0.5A

MARKING: 2TY

### MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	-40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	-25	V
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-0.5	A
Pc	Collector Power Dissipation	0.3	W
T <sub>J</sub> ,T <sub>stg</sub>	Operation Junction and Storage Temperature Range	-55-150	°C

# ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	$I_C = -100 \mu A, I_E = 0$	-40		V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =-1mA, I <sub>B</sub> =0	-25		V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = -100μA, I <sub>C</sub> =0	-5		V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = -40V, I <sub>E</sub> =0		-0.1	μΑ
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> = -20V, I <sub>B</sub> =0		-0.1	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = -3V, I <sub>C</sub> =0		-0.1	μΑ
DC command main	h <sub>FE(1)</sub>	V <sub>CE</sub> = -1V, I <sub>C</sub> = -50mA	120	400	
DC current gain	h <sub>FE(2)</sub>	V <sub>CE</sub> = -1V, I <sub>C</sub> = -500mA	50		
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =-500mA, I <sub>B</sub> = -50mA		-0.6	V
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =-500mA, I <sub>B</sub> = -50mA		-1.2	V
Transition frequency	f⊤	V <sub>CE</sub> = -6V, I <sub>C</sub> = -20mA f=30MHz	150		MHz

CLASSIFICATION OF hFE(1)			
Rank	L	н	C
Range	120-200	200-350	300-400

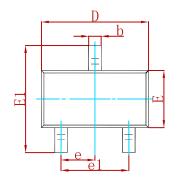


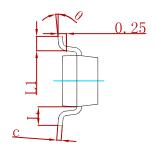


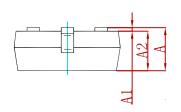




### **PACKAGE MECHANICAL DATA**

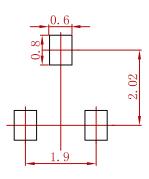






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		0.037	7 TYP
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

# **Suggested Pad Layout**



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.

# **REEL SPECIFICATION**

P/N	PKG	QTY
S8550-MS	SOT-23	3000



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