# MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

2SC1623-MS

# Product specification





#### **FEATURES**

- High DC current gain :hFE=200(Typ) VCE=6V,Ic=1mA
- High voltage:VCEO=50V

#### **Reference News**

PACKAGE OUTLINE		MARKING	
	1. BASE 2. EMITTER 3.COLLECTOR	L6	
SOT-23			

## MAXIMUM RATINGS (Ta=25<sup>°</sup>C unless otherwise noted)

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	60	V
VCEO	Collector-Emitter Voltage	50	V
V <sub>ЕВО</sub>	Emitter-Base Voltage	5	V
lc	Collector Current -Continuous	100	mA
Pc	Collector Power Dissipation 200		mW
TJ	Junction Temperature 150		°C
Tstg	Storage Temperature	-55-150	°C

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

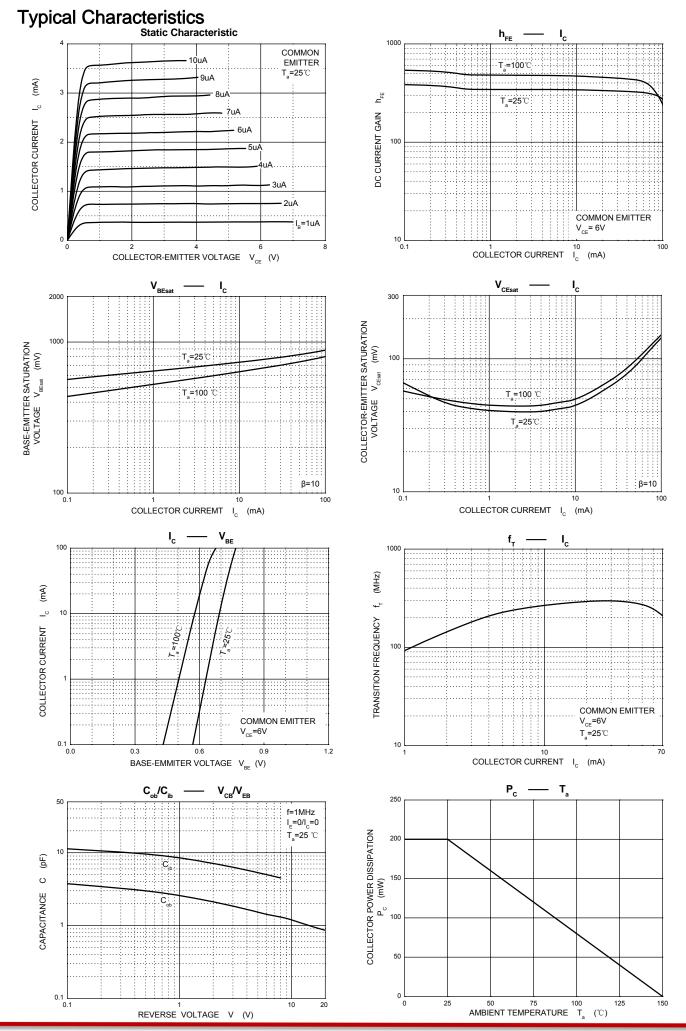
Parameter	Symbol	Test condition。	Min	Тур	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	lc=100μΑ,I <sub>E</sub> =0	60			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 1mA,I <sub>B</sub> =0	50			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA,I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>СВО</sub>	V <sub>CB</sub> =60V,I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	Іево	V <sub>EB</sub> =5V,I <sub>C</sub> =0			0.1	μA
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> =6V,I <sub>C</sub> = 1mA	90	200	600	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 100mA,I <sub>B</sub> =10mA			0.3	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = 100mA,I <sub>B</sub> =10mA			1	V
Transition frequency	f⊤	V <sub>CE</sub> =6V,I <sub>C</sub> =10mA		250		MHz

#### CLASSIFICATION OF hFE

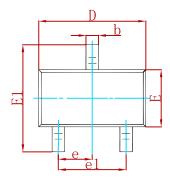
Rank	L4	L5	L6	L7
Range	90-180	135-270	200-400	300-600
Marking	L4	L5	L6	L7

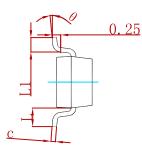


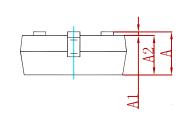
# 2SC1623-MS



# PACKAGE MECHANICAL DATA

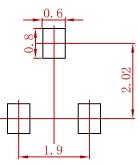






Cumbol.	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037	7 TYP	
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022	2 REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

## Suggested Pad Layout



Note: 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
2SC1623-MS	SOT-23	3000



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