MSKSEMI 美森科













FSD

TVS

TSS

MOV

GDT

PIFD

2SC1623

Product specification





FEATURES

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

Reference News

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

MAXIMUM RATINGS (Ta=25℃unless otherwise noted)

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	60	V
Vceo	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current -Continuous	100	mA
Pc	Collector Power Dissipation 200		mW
TJ	Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature	-55-150	$^{\circ}$

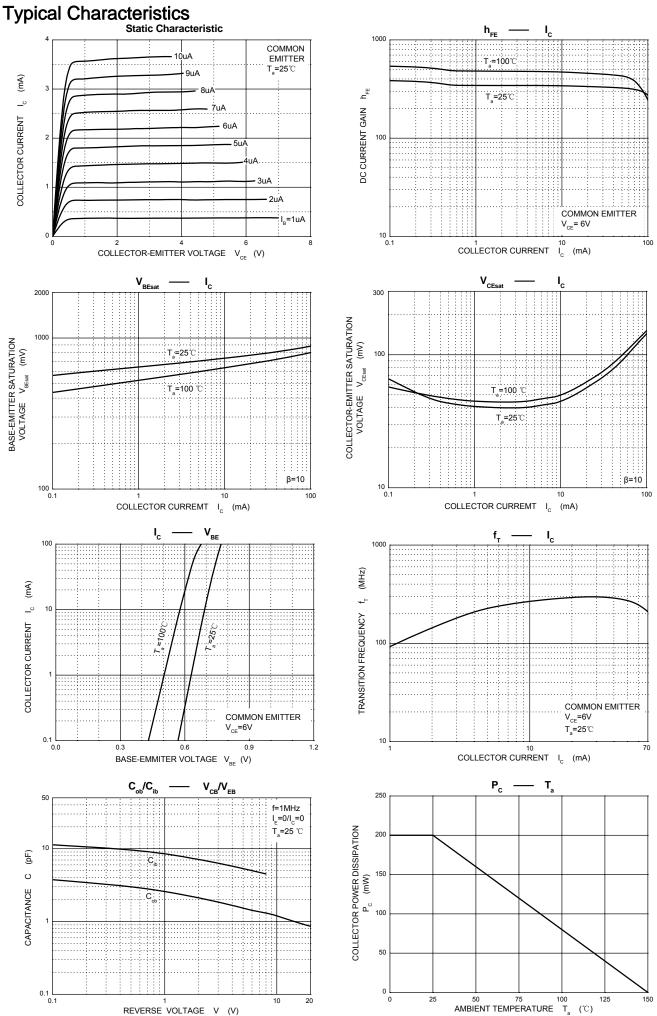
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test condition。	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	lc=100μA,I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA,I _B =0	50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA,I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =60V,I _E =0			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =5V,I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =6V,I _C =1mA	90	200	600	
Collector-emitter saturation voltage	V _{CE(sat)}	lc=100mA,l _B =10mA			0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 100mA,I _B =10mA			1	V
Transition frequency	f⊤	V _{CE} =6V,I _C =10mA		250		MHz

CLASSIFICATION OF hFE

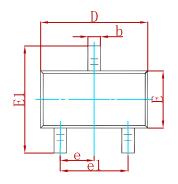
Rank	L4	L5	L6	L7
Range	90-180	135-270	200-400	300-600
Marking	L4	L5	L6	L7

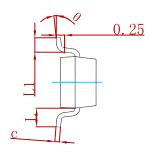


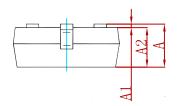




PACKAGE MECHANICAL DATA

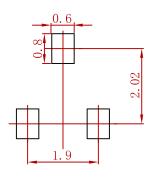






Symbol	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.03	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



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	SOT-23	3000



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