



Product data sheet

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SOT - 23



2. EMITTER

3. COLLECTOR

TRANSISTOR (PNP)

FEATURES

• Complementary to S9014-MS

MARKING: M6

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{сво}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-45	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ιc	Collector Current	-100	mA
Pc	Collector Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = -100μΑ, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -0.1mA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μΑ, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-50 V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-5V, I _C = -1mA	200		1000	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =-100mA, I _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} =-5V, I _C = -10mA f=30MHz	150			MHz

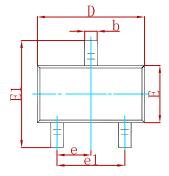
CLASSIFICATION OF h_{FE}

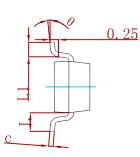
Rank	L	Н
Range	200-450	400-1000

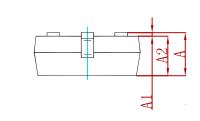




PACKAGE MECHANICAL DATA

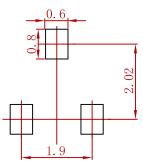






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 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:

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

REEL SPECIFICATION

P/N	PKG	QTY
S9015-MS	SOT-23	3000



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