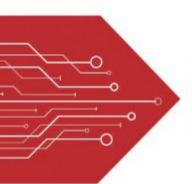
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet



TRANSISTOR (PNP)

FEATURES

- Small Surface Mount Package
- High DC Current Gain



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol Parameter Unit Value Collector-Base Voltage \textbf{V}_{CBO} -50 ٧ Collector-Emitter Voltage Vceo -45 V Emitter-Base Voltage \textbf{V}_{EBO} -5 V Collector Current - 100 lc mΑ **Collector Power Dissipation** 200 Pc $\, mW \,$ Thermal Resistance From Junction To Ambient °C/W 625 Roja Operation Junction and $^{\circ}$ T_J, T_{stg} -55~+150 Storage Temperature Range

1. BASE

SOT -323

2. EMITTER

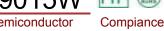
3. COLLECTOR

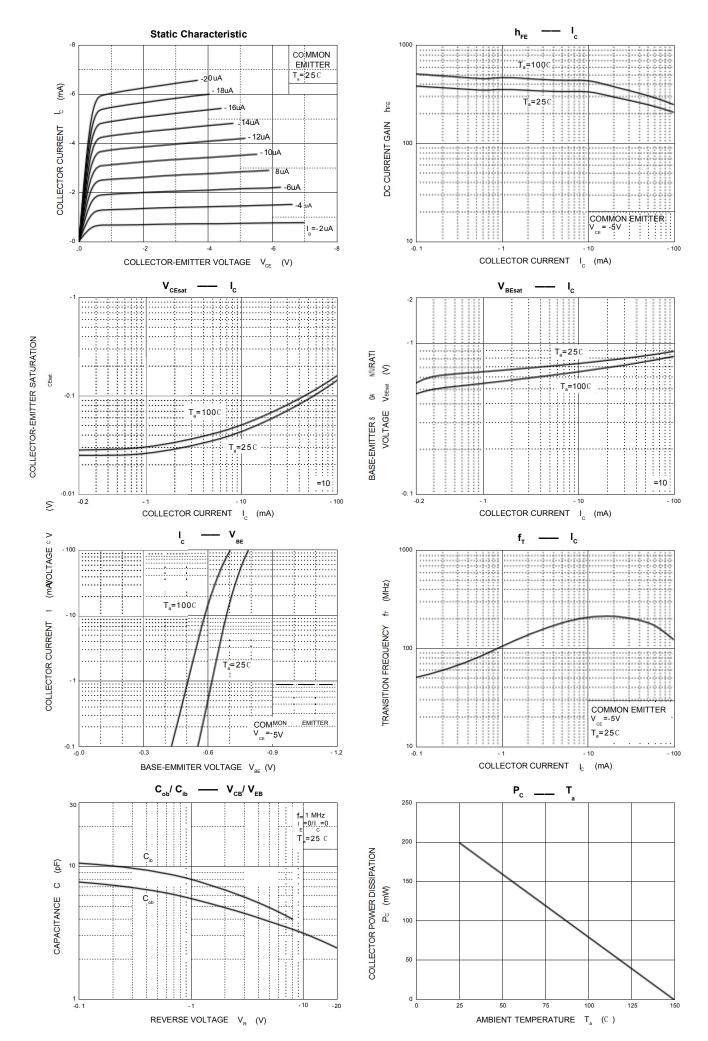
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =- 100μA, I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =- 100μA, I _B =0	-45			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =- 100μA, I _C =0	-5			V
Collector cut-off current	Ісво	V _{CB} =-50V, I _E =0			- 100	nA
Emitter cut-off current	ІЕВО	V _{EB} =-5V, I _C =0			- 100	nA
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)}	Ic=- 100mA, I _B =- 10mA			-1	V
Base-emitter voltage	V _{BE}	V _{CE} =-5V, I _C =- 1mA	-0.6		-0.75	V
Transition frequency	f _T	V _{CE} =-5V,I _C =- 10mA , f=30MHz	150			MHz
Collector output capacitance	Cob	V _{CB} =- 10V, I _E =0, f=1MHz			7	pF

CLASSIFICATION OF hFE

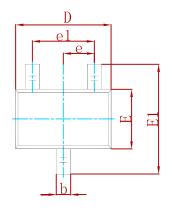
RANK	L	Н	
RANGE	200 –450	400 – 1000	
MARKING	M6		

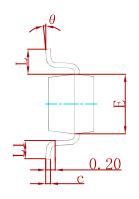


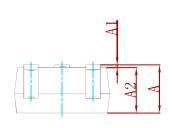




PACKAGE MECHANICAL DATA

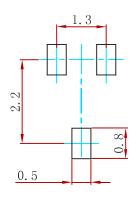






Symbol	Dimensions	In Millimeters	Dimensions	In Inches
Symbol	Min	Max	Min	Max
Α	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
С	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
е	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
9	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
S9015W	SOT-323	3000



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