



DESCRIPTION

The C945 is available in SOT-23 package

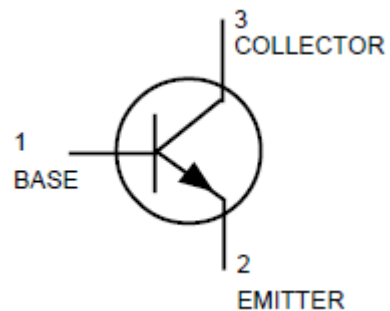
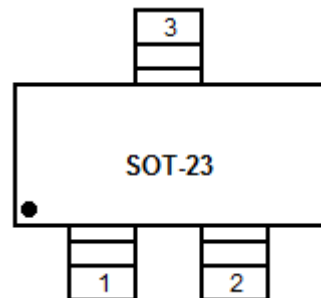
ORDERING INFORMATION

Package Type	Part Number
SOT-23	C945L
	C945H
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	

FEATURES

- Power Dissipation
 P_{CM} : 0.2W ($T_{amb}=25^{\circ}C$)
- Collector Current
 I_{CM} : 0.15A
- Collector-Base Voltage
 $V_{(BR)CBO}$: 60V
- Operating and Storage Junction Temperature Range
 T_J, T_{STG} : $-55^{\circ}C$ to $+150^{\circ}C$
- Available in SOT-23 package

PIN DESCRIPTION





ELECTRICAL CHARACTERISTICS

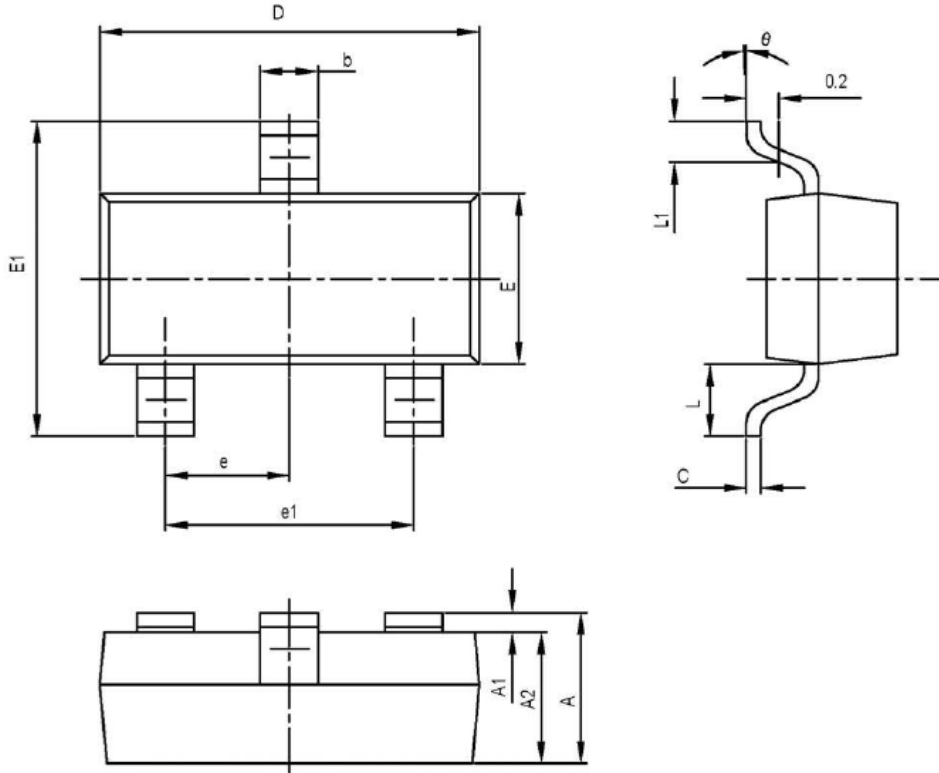
T_{amb}=25°C, unless otherwise specified.

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =0.1mA, 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	μA	
Collector Cut-off Current	I _{CER}	V _{CE} =55V, R=10mΩ	-	-	0.1	μA	
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	0.1	μA	
DC Current Gain	h _{FE(1)}	V _{CE} =6V, I _C =1mA	L	130	-	200	-
			H	200	-	400	
	h _{FE(2)}	V _{CE} =6V, I _C =0.1mA	40	-	-	-	
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	
Base-Emitter Voltage	V _{BE}	I _E =310mA	-	-	1.4	V	
Transition Frequency	f _T	V _{CE} =6V, I _C =10mA, f=30MHz	150	-	-	MHz	



PACKAGE INFORMATION

Dimension in SOT-23 (Unit: mm)



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	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	0.300	0.500	0.012	0.020
c	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
e	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°



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