MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

C945-MS

Product specification





FEATURES

- Excellent hFE Linearity
- Low noise
- Complementary to A733-MS

Reference News

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

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

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current	150	mA
Pc	Collector Power Dissipation	200	mW
TJ	Junction Temperature	150	°C
Tstg	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25 $^{\circ}$ C unless otherwise specified)

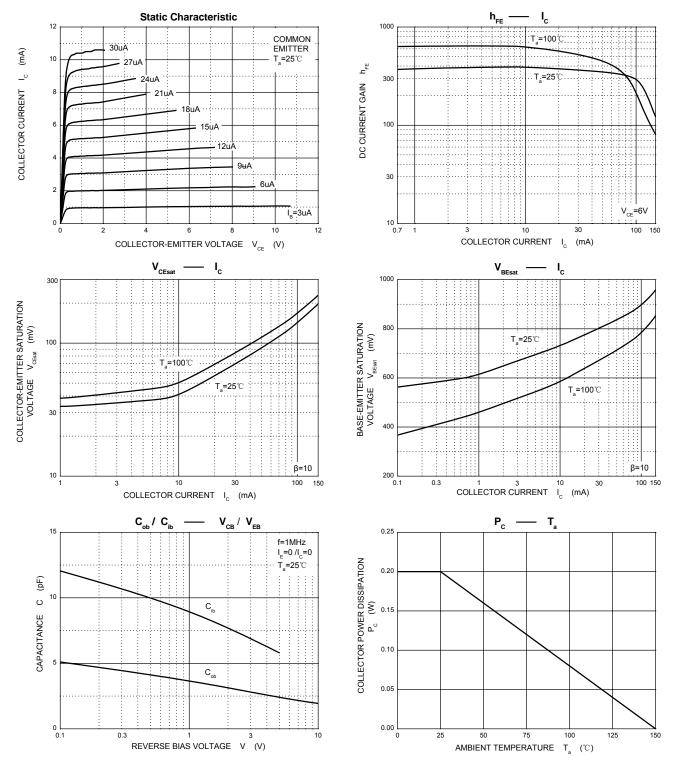
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	I _C =100uA, I _E =0	60			V
Collector-emitter breakdown voltage	V(BR)CEO	lc=1mA,I _B =0	50			V
Emitter-base breakdown voltage	V(BR)EBO	l _E =0.1mA, I _C =0	5			V
Collector cut-off current	Ісво	V _{CB} =60V, I _E =0			0.1	uA
Collector cut-off current	ICER	V _{CE} =55V,R=10MΩ			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} =5V , I _C =0			0.1	uA
DO comment actin	h _{FE(1)}	$V_{CE}=6 V$, $I_C=1mA$	130		400	
DC current gain	h _{FE(2)}	V_{CE} =6 V , 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
Transition frequency	f⊤	V _{CE} =6V,I _C =10mA,f=30 MHz	150			MHz
Collector output capacitance	Cob	V _{CB} =10V,I _E =0,f=1MH _Z			3.0	рF
Noise figure		VCE=6V,Ic=0.1mA		4	10	dB
	NF	R _g =10kΩ,f=1kMHz		4	10	uБ

CLASSIFICATION OF hFE(1)

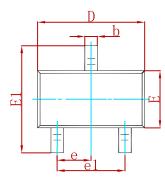
Rank	L	Н	
Range	130-200	200-400	

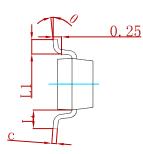


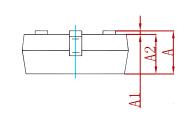
Typical Characteristics



PACKAGE MECHANICAL DATA

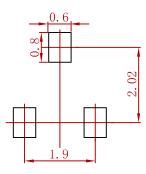






Cumhal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
А	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
с	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.03	7 TYP	
e1	1.800	2.000	0.071	0.079	
Ĺ	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
C945-MS	SOT-23	3000



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