MSKSEMI















ESD

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Broduct data sheet



SOT - 23



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

TRANSISTOR (PNP)

FEATURE

- Collector-Base Voltage
- Complement to C945-MS

MARKING: CS

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

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-150	mA
Pc	Collector Power Dissipation	200	mW
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-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 = -5uA,I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = -1mA , I _B =0	-50			٧
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = -50uA, I _C =0	-5			٧
Collector cut-off current	I _{CBO}	V _{CB} = -60 V , I _E =0			-0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V , I _C =0			-0.1	uA
DC current gain	h _{FE}	V _{CE} = -6 V, I _C = -1mA	120		475	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = -100mA, I _B =- 10mA		-0.18	-0.3	٧
Base-emitter voltage	V _{BE(on)}	V _{CE} =-6V,I _C =-1.0mA	-0.58	-0.62	-0.68	V
Transition frequency	f⊤	V _{CE} =-6V,I _C =-10mA	50			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MH _Z		4.5	7	pF
Noise figure	NF	V_{CE} =-6V, I_{C} =-0.3mA, Rg=10k Ω ,f=100H _Z		6	20	dB

CLASSIFICATION OF h_{FE}

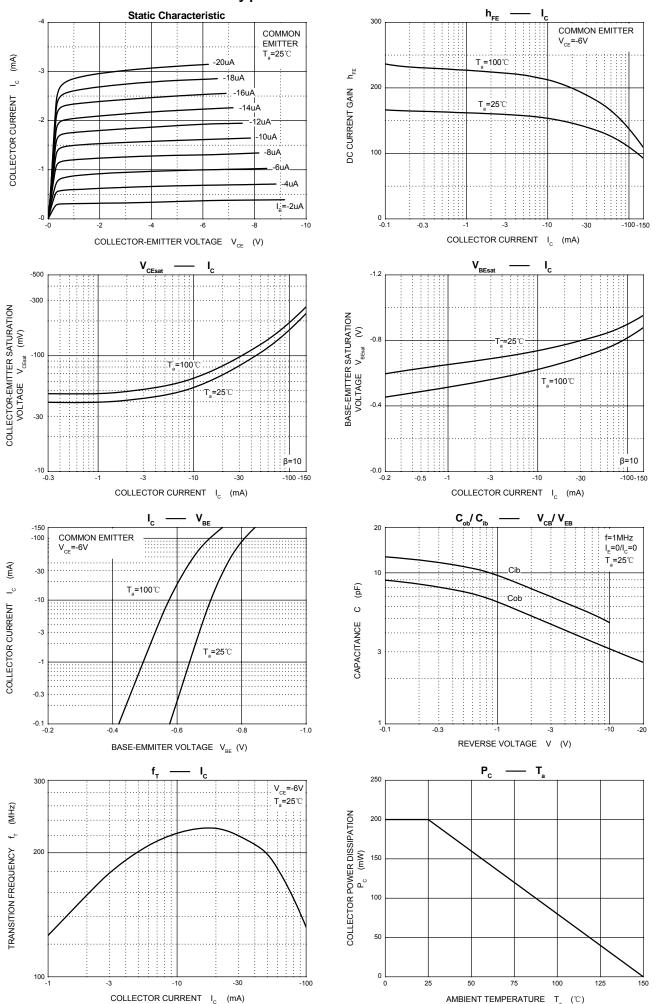
Rank	L	Н		
Range	120-200	200-400		



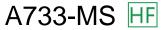
Semiconductor

Compiance

Typical Characterisitics



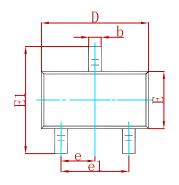


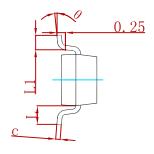


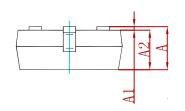


Semiconductor Compiance

PACKAGE MECHANICAL DATA

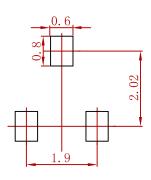






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е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



- 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
A733-MS	SOT-23	3000



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