MMBT4125

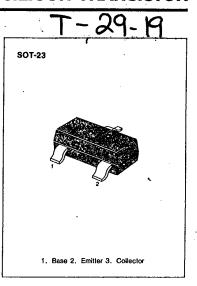
PNP EPITAXIAL SILICON TRANSISTOR

GENERAL PURPOSE TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V _{CBO}	30		
Collector-Emitter Voltage	V _{CEO}	30	V	
Emitter-Base Voltage	V _{EBO}	4	l v	
Collector Current	k	200	mA	
Collector Dissipation	Pc	350	mW	
Storage Temperature	Tstg	150	°C	

Refer to MMBT 3906 for graphs



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	l _C =10μA, l _E =0	30		v
*Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA, I _E =0	30	1	(v
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E = 10 \mu A, I_C = 0$	4		V
Collector Cutoff Current	Ісво	V _{CB} =20V, I _E =0		50	nA
Emitter Cutoff Current	i I I _{EBO}	V _{EB} =3V, I _C =0		50	ńΑ
*DC Current Gain	h _{FE}	V _{CE} =1V, l _C =2.0mA	50	150	1
	1	V _{CE} =1V, I _C =50mA	25	j	ļ
*Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =50mA, I _B =5.0mA	ļ	0.4	/ v
*Base-Emitter Saturation Voltage	V _{BE} (sat)	I _c =50mA, I _s =5.0mA		0.95	l v
Current Gain-Bandwidth Product	İτ	l _c =10mA, V _{CE} =20V f=100MHz	200		MHz
Collector Base Capacitance	Ccb	V _{C8} =5V, I _E =0 f=100KHz		4.5	ρF
Noise Figure	NF	I_c =100 μ A, V_{CE} =5 V R _S =1 $K\Omega$, f=10 Hz to 15.7 KHz		5	dΒ

^{*} Pulse Test: Pulse Width≤300µs, Duty Cycle≤2% <



SAMSUNG SEMICONDUCTOR

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