

TRANSISTOR(NPN)

FEATURES

- High breakdown voltage
- Low collector-emitter saturation voltage
- Complementary to MMBTA92 (PNP)

Marking: 1D

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	300	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	0.3	Α	
Pc	Collector Power dissipation	0.35	W	
R _{OJA}	Thermal Resistance, junction to Ambient	357	°C/mW	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-55to +150	℃	

SOT-23

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

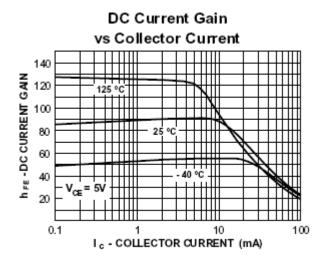


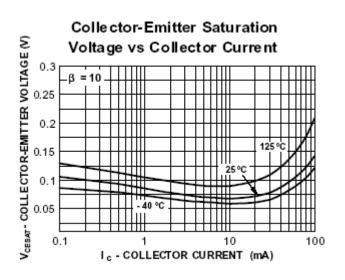
ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

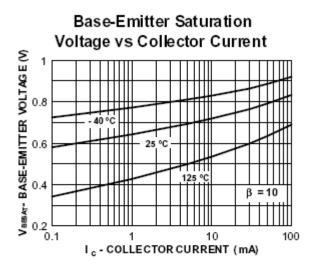
Parameter		Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100μA, I _E =0	300		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, I _B =0	300		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 100μA, I _C =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} =200V, I _E =0		0.25	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0		0.1	μA
	h _{FE(1)}	V _{CE} = 10V, I _C = 1mA	60		
DC current gain	h _{FE(2)}	V _{CE} = 10V, I _C =10mA	100	200	
	h _{FE(3)}	V _{CE} =10V, I _C =30mA	60		
Collector-emitter saturation voltage	V _{CE} (sat)	I _C =20mA, I _B = 2mA		0.2	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C = 20mA, I _B =2mA		0.9	V
Transition frequency	f⊤	V _{CE} = 20V, I _C = 10mA, f=30MHz	50		MHz

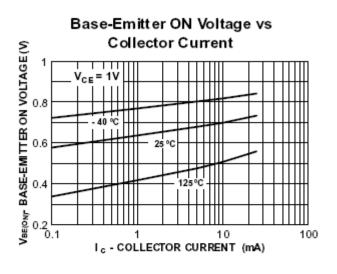


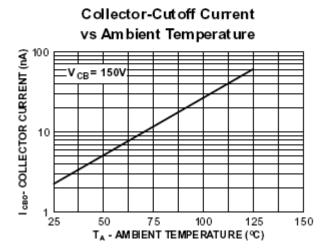


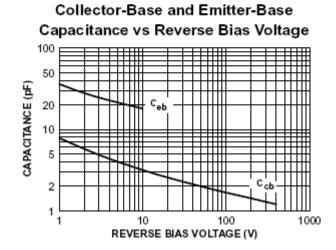






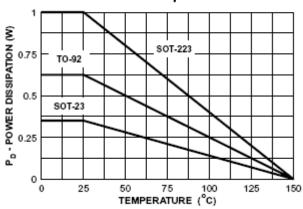








Power Dissipation vs Ambient Temperature



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