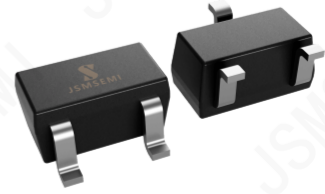


Features

- High breakdown voltage
- Low collector-emitter saturation voltage

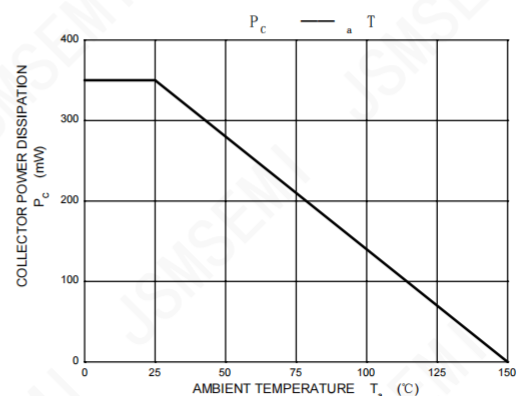
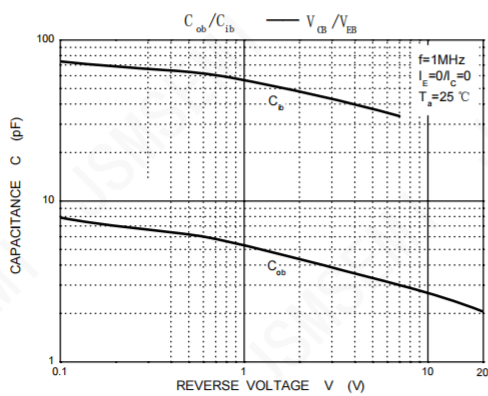
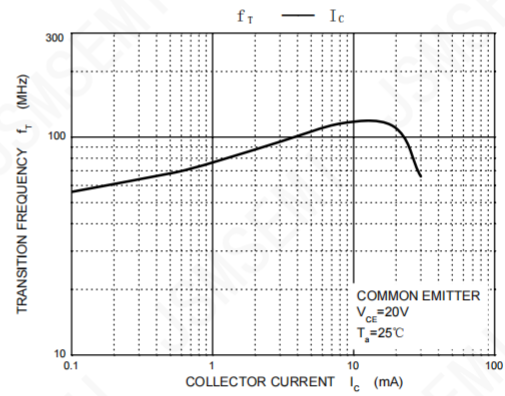
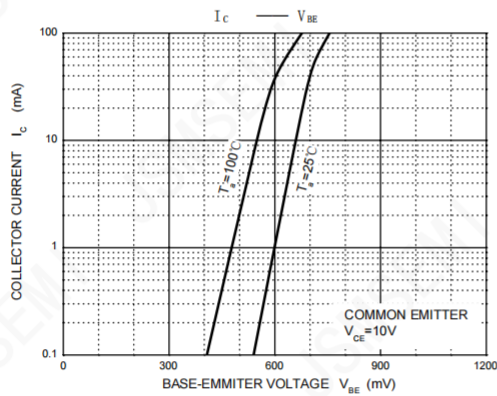
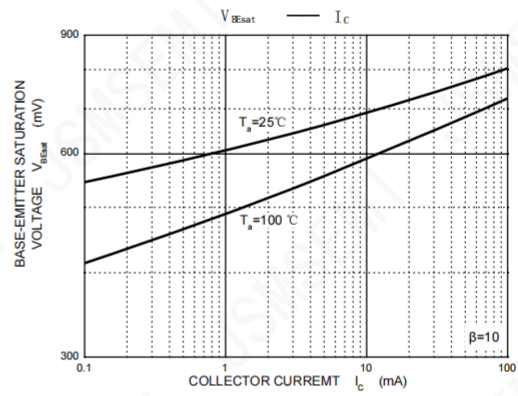
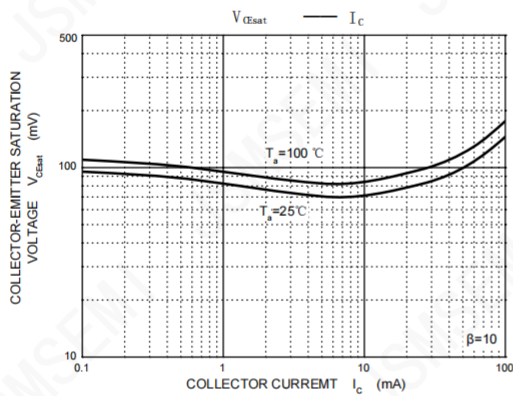
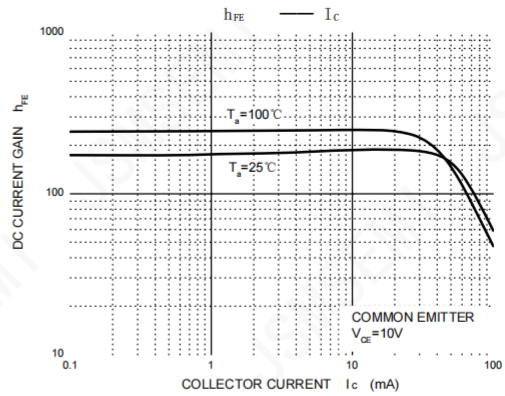
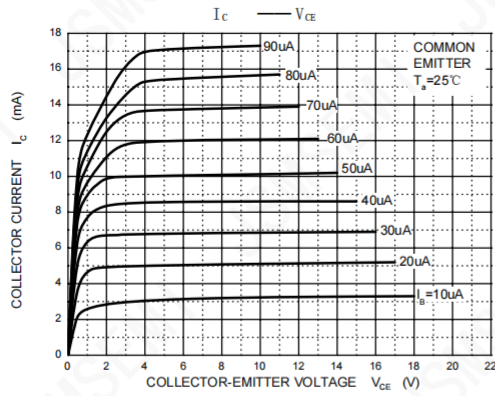

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	500	V
Collector - Emitter Voltage	V _{CE0}	400	
Emitter - Base Voltage	V _{EBO}	5	
Collector Current - Continuous	I _c	500	mA
Collector Power Dissipation	P _c	350	mW
Thermal Resistance Junction to Ambient	R _{θJA}	357	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

Electrical Characteristics Ta = 25°C

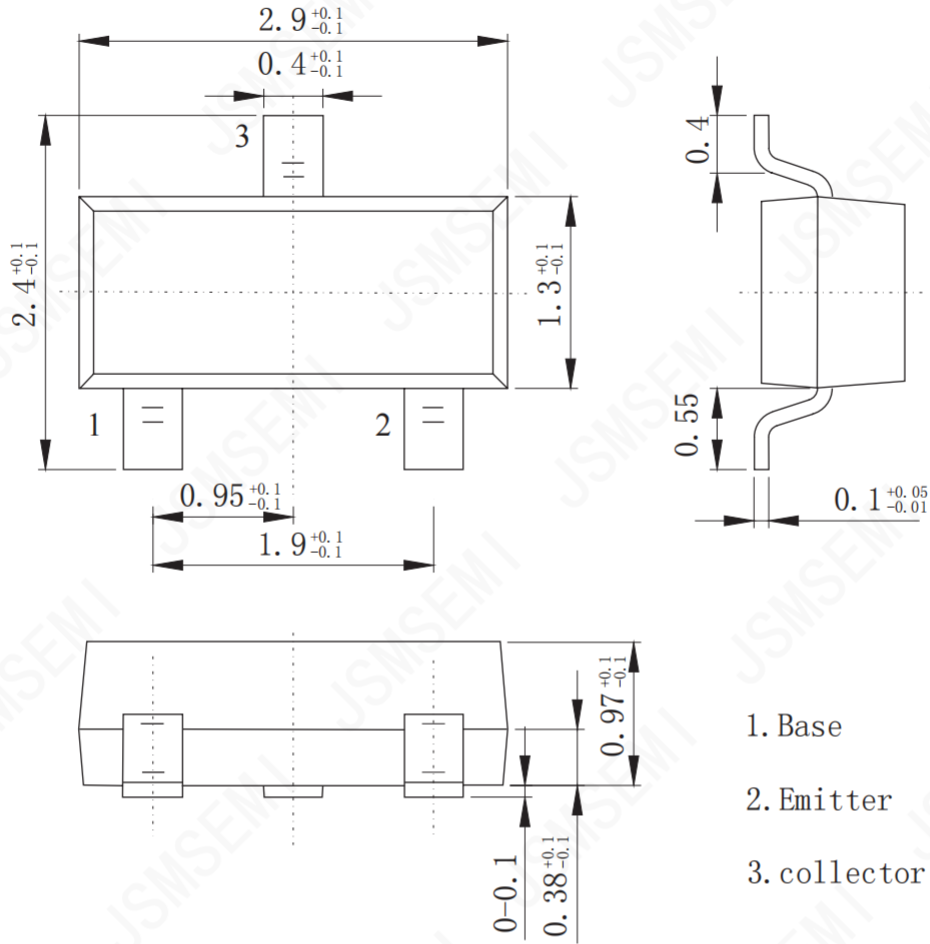
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{CB0}	I _c = 100 μA, I _E = 0	500			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = 1 mA, I _B = 0	300			
Emitter - base breakdown voltage	V _{EBO}	I _E = 100 μA, I _C = 0	5			
Collector-base cut-off current	I _{CB0}	V _{CB} = 200 V, I _E = 0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 20 mA, I _B = 2mA			0.2	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = 20mA, I _B = 2mA			0.9	
DC current gain	h _{fe} (1)	V _{CE} = 10V, I _C = 1mA				
	h _{fe} (2)	V _{CE} = 10V, I _C = 10mA	150		180	
	h _{fe} (3)	V _{CE} = 10V, I _C = 30mA				
Transition frequency	f _T	V _{CE} = 20V, I _C = 10mA, f=30MHz	50			MHz

Typical Characteristics



SOT-23

Unit: mm



Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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