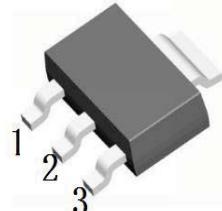


100V NPN MEDIUM POWER TRANSISTOR

SOT-223



1: Base 2: Collector 3: Emitter

FEATURES

1. BVCEO > 100V
2. IC=1A High Continuous Current
3. Low saturation voltage

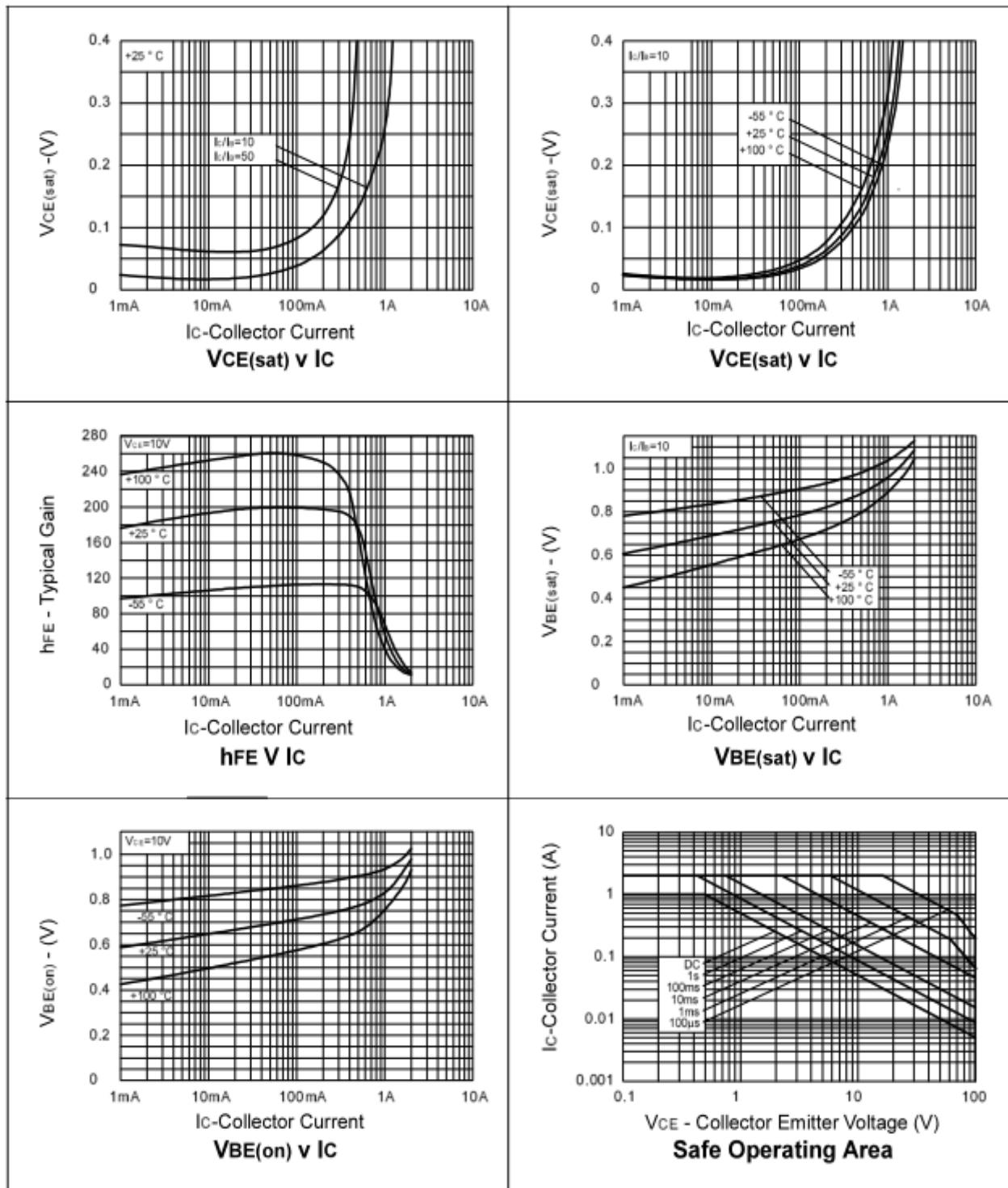
Maximum ratings(Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	VCBO	120	V
Collector-Emitter Breakdown Voltage	VCEO	100	V
Emitter-Base Breakdown Voltage	VEBO	5	V
Collector Current	IC	1	A
Collector Power Dissipation	PC	2	W
Junction Temperature	TJ	150	°C
Storage Temperature	Tstg	-55~150	°C

Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	VCBO	IC=100uA IE=0	120		V
Collector-Emitter Breakdown Voltage	VCEO	IC=1mA IB=0	100		V
Emitter-Base Breakdown Voltage	VEBO	IE=100uA IC=0	5		V
Collector-Base Cutoff Current	ICBO	VCB=100V IE=0		100	nA
Emitter-Base Cutoff Current	IEBO	VEB=4V IC=0		100	nA
Collector-Emitter Cutoff Current	ICE0	VCE=100V IB=0		4	uA
DC Current Gain	HFE	VCE=10V IC=1mA	100		
		VCE=10V IC=250mA	100	300	
		VCE=10V IC=500mA	60		
		VCE=10V IC=1A	20		
Collector-Emitter Saturation Voltage	VCE(sat)	IC=500mA IB=50mA		0.3	V
		IC=1A IB=100mA		0.6	
Base-Emitter Saturation Voltage	VBE(sat)	IC=1A IB=100mA		1.15	V
transition frequency	fT	VCE=10V IC=50mA f=100MHz	150		MHz

RATING AND CHARACTERISTICS CURVES (FZT493)



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