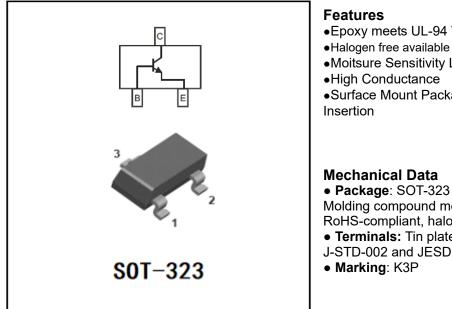




NPN Transistor



•Epoxy meets UL-94 V-0 flammability rating

•Halogen free available upon request by adding suffix "HF"

•Moitsure Sensitivity Level 1

•Surface Mount Package Ideally Suited for Automatic

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- Terminals: Tin plated leads, solderable per
- J-STD-002 and JESD22-B102

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Value
Collector-Base Voltage	V _{CBO}	V	75
Collector-Emitter Voltage	V _{CEO}	V	40
Emitter-Base Voltage	V _{EBO}	V	6
Collector Current	Ι _C	mA	600
Collector Power Dissipation	Pc	mW	200
Operation Junction Temperature	Tj	°C	150
Storage Temperature	Tstg	°C	-55 to +150

1/5

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

Item	Symbol	Unit	Conditions	Min	Тур	Мах
Collector-base breakdown voltage	V _{CBO}	V	IC=10uA,IE=0	75		
Collector-emitter breakdown voltage	V _{CEO*}	V	IC =10mA,IB=0	40		
Emitter-base breakdown voltage	V _{EBO}	V	IE=10µA,IC=0	6		
Collector-emitter cut-off current	I _{CEX}	nA	VCE=60V, VBE=3V			10
Collector-base cut-off current	I _{CBO}	nA	VCB=60V, IE=0			100
Emitter-base cut-off current	I _{EBO}	nA	VEB=3 V, IC =0			100
	h _{FE}		VCE=10V,IC=0.1mA	20		
	h _{FE}		VCE=10V,IC=1mA	40		
DC current gain	h _{FE}		VCE=10V,IC=10mA	80		
	h _{FE}		VCE=10V,IC=150mA	100		300
	h _{FE}		VCE=10V,IC=500mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=150mA,IB=15mA			0.3
Base-emitter saturation voltage	V _{BE(sat)}	V	IC=150mA,IB=15mA	0.6		1.2
Transition frequency	f⊤	MHz	VCE=20V,IC=20mA,f=100MHz	300		
Delay time	td	ns	VCC=30V, VBE(off)=-0.5V			15
Rise time	tr	ns	IC=150mA,IB1=15mA			25
Storage time	ts	ns				225
Fall time	tf	ns	VCC=30V,IC=150mA,IB1=IB2=15mA			60

Ordering Information (Example)

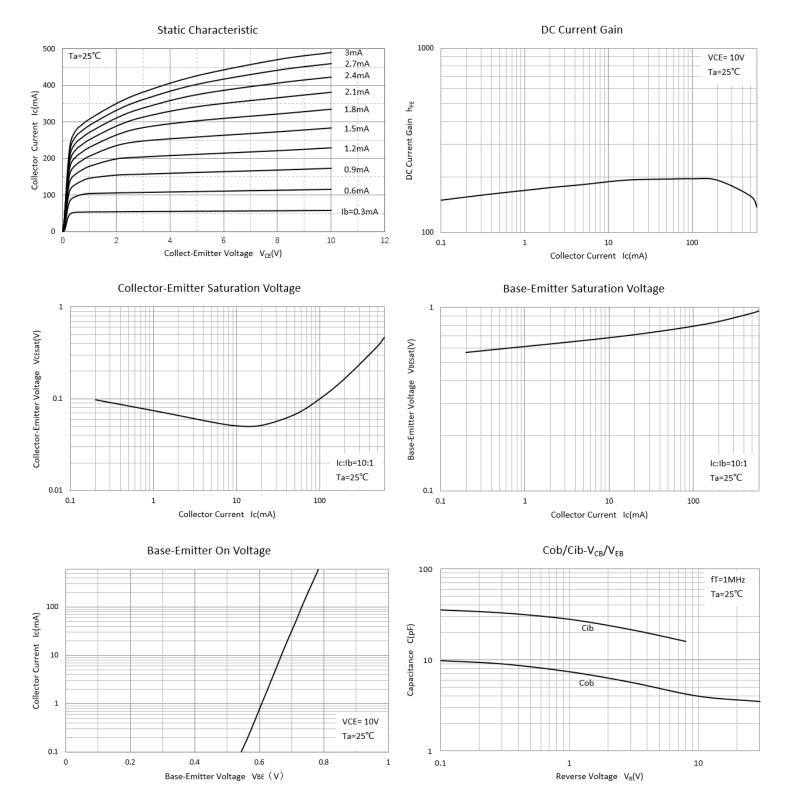
Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
MMST2222A	F2	Approximate 0.005	3000	30000	120000	7" reel

2/5





Characteristics (Typical)

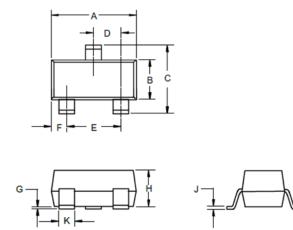


3/5



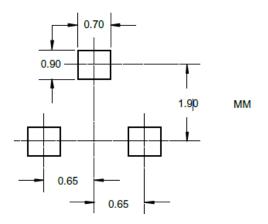


SOT-323 Package Outline Dimensions



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.071	.087	1.80	2.20			
В	.045	.053	1.15	1.35			
С	.083	.096	2.10	2.45			
D	.026 Nominal		0.65Nominal				
E	.047	.055	1.20 1.40				
F	.012	.016	.30	.40			
G	.000	.004	.000	.100			
Н	.035	.039	.90	1.00			
J	.004	.010	.100	.250			
K	.006	.016	.15	.40			

■ SOT-323 Soldering Footprint





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