MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

MMST4401

Product specification





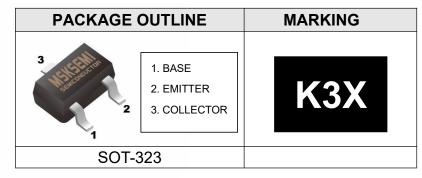


FEATURES

Complementary to MMST4403

Small Surface Mount Package

Reference News



MAXIMUM RATINGS (Ta=25 $^{\circ}$ C unless otherwise noted)

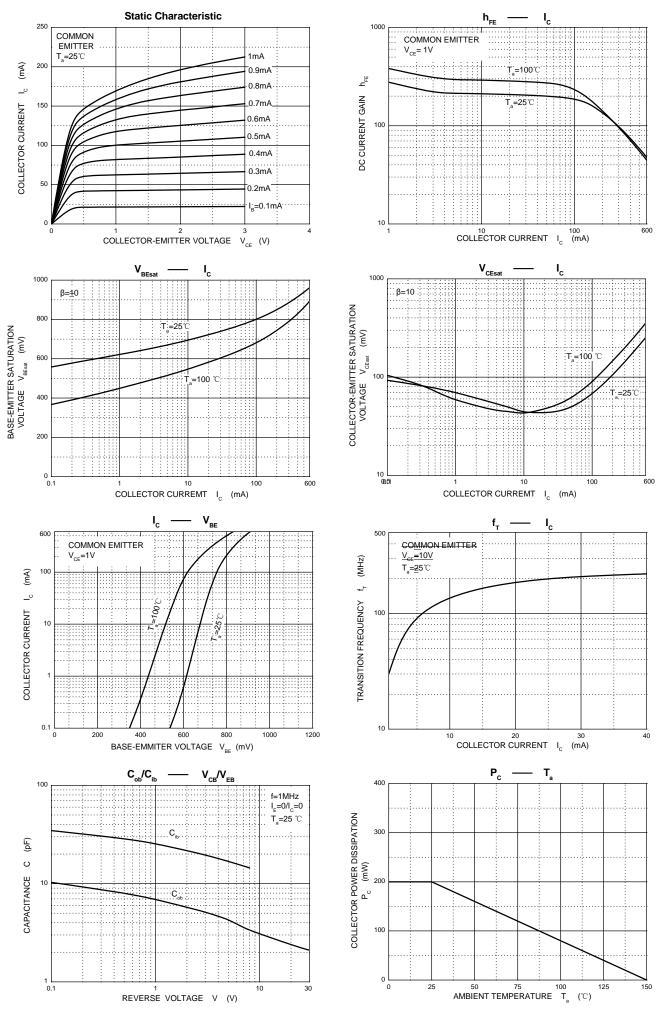
Symbol	Parameter	Value	Unit
V _{сво}	Collector-Base Voltage	60	V
VCEO	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current	600	mA
Pc	Collector Power Dissipation	200	mW
Roja	Thermal Resistance From Junction To Ambient	625	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25[°]C unless otherwise specified)

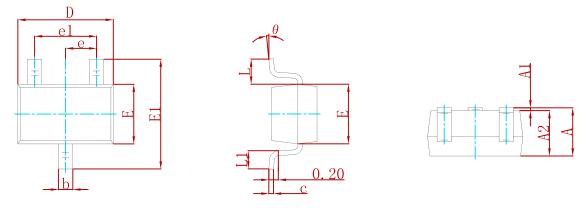
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	l _C =100μA, l _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	lc=1mA, I _B =0	40			V
Emitter-base breakdown voltage	V _{(BR)EBO}	l∈=100μA, I _C =0	6			V
Collector cut-off current	Ісво	V _{CB} =35V, I _E =0			100	nA
Collector cut-off current	I _{CEO}	V _{CE} =35V, I _B =0			500	nA
	hfe	V _{CE} =1V, I _C =100µA	20			
		V _{CE} =1V, I _C =1mA	40			
DC current gain		V _{CE} =1V, I _C =10mA	80			
		V _{CE} =1V, I _C =150mA	100		300	
		V _{CE} =2V, I _C =500mA	40			
	V _{CE(sat)}	lc=150mA, Iв=15mA			0.4	V
Collector-emitter saturation voltage		lc=500mA, I _B =50mA			0.75	V
Page emitter esturation voltage	V _{BE(sat)}	l _C =150mA, I _B =15mA	0.75		0.95	V
Base-emitter saturation voltage		lc=500mA, I _B =50mA			1.2	V
Transition frequency	f⊤	V _{CE} =10V,I _C =20mA , f=100MHz	250			MHz
Collector output capacitance	C _{ob}	V_{CB} =5V, I _E =0, f=1MHz			6.5	pF



MMST4401

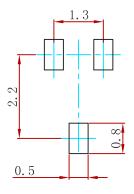


PACKAGEMECHANICALDATA



Symbol	Min	Max			
		IVIAX	Min	Max	
A	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

1.Controlling dimension:in millimeters.

- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MMST4401	SOT-323	3000



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