

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6	V
Continuous Collector Current	Ic	600	mA
Power Dissipation	P _D	200	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

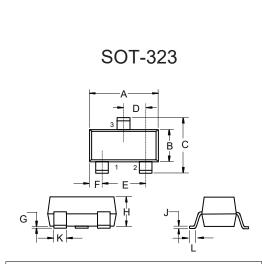
Marking: K3X

Internal Structure



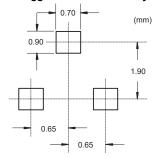
1.BASE 2.EMITTER 3.COLLECTOR

NPN Small Signal Transistors



DIMENSIONS					
INCHES		MM		NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout



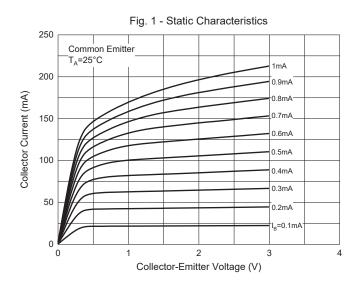


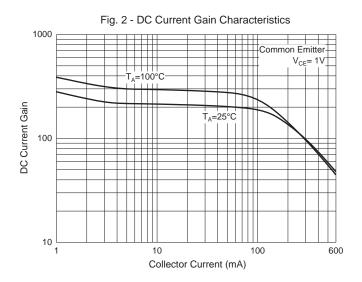
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

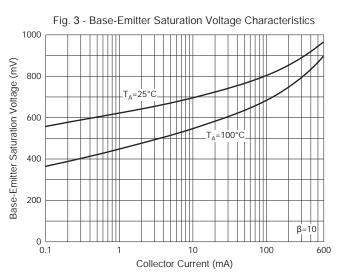
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	60			V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	40			V	I _C =1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	6			V	I _E =100μA, I _C =0
Collector Cutoff Current	I _{CBO}			0.1	μA	V_{CB} =35V, I_E =0
Collector Cutoff Current	I _{CEO}			0.1	μA	V_{CE} =35V, I_B =0
Emitter Cutoff Current	I _{EBO}			0.1	μA	V_{EB} =5V, I_C =0
DC Current Gain	h _{FE(1)}	100		300		V _{CE} =1V, I _C =150mA
	h _{FE(2)}	40				V _{CE} =2V, I _C =500mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.4	V	I _C =150mA, I _B =15mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			0.95	V	I _C =150mA, I _B =15mA
Transition Frequency	f _T	250			MHz	V _{CE} =10V, I _C =20mA, f=100MHz
Delay Time	t _d			15	ns	V _{CC} =30V,I _C =150μA,
Rise Time	t _r			20	ns	$V_{BE(off)}=2V,I_{B1}=15mA$
Storage Time	t _s			225	ns	V _{CC} =30V, I _C =150mA,
Fall Time	t _f			30	ns	I _{B1} =I _{B2} =15mA
Output Capacitance	C _{ob}			6.5	pF	V_{CB} =10V, I_{E} =0, f=1MHz

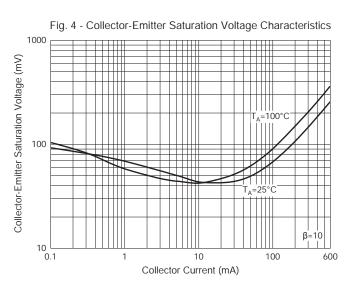


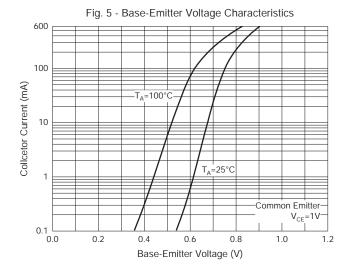
Curve Characteristics

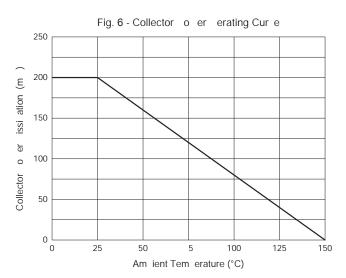














Ordering Information

Device	Packing	
MMST4401HE3-TP	Tape&Reel: 3Kpcs/Reel	

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