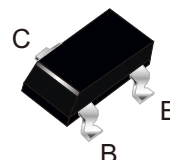


FEATURES

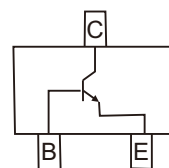
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to MMST3906
- Power dissipation of 200mW
- High stability and high Reliability

SOT-323



MECHANICAL DATA

- Case:SOT-323
- Terminals:Plated solderable per MIL-STD-750,method 2026
- Mounting Position: Any
- Marking:K2N



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

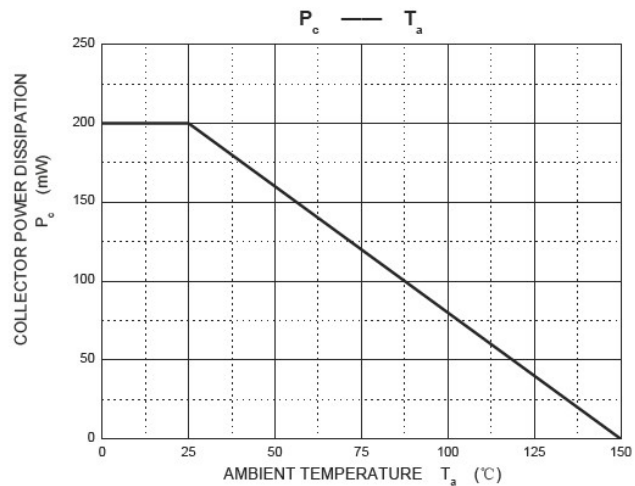
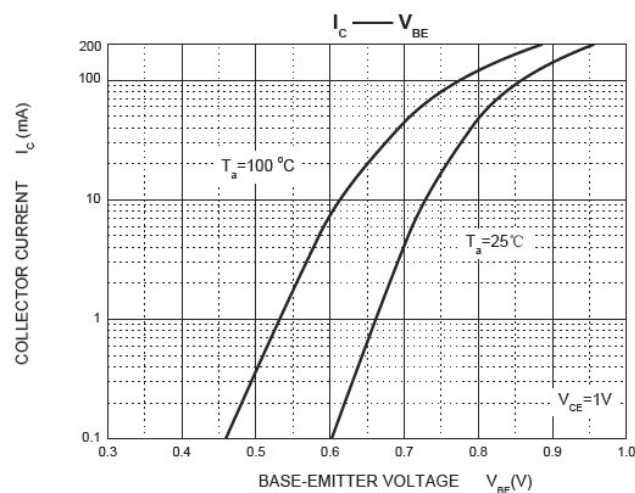
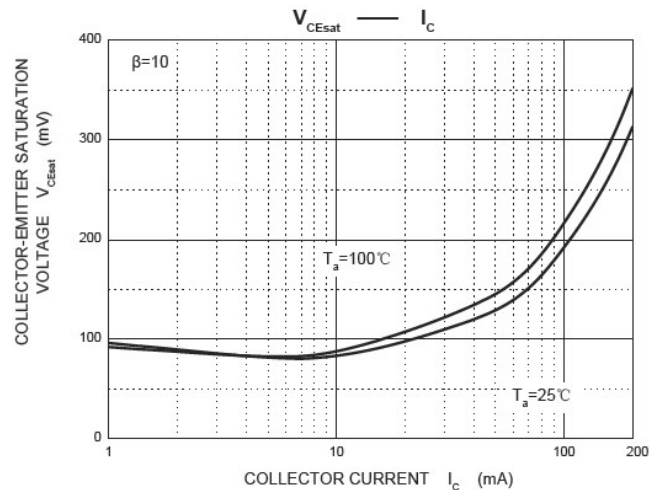
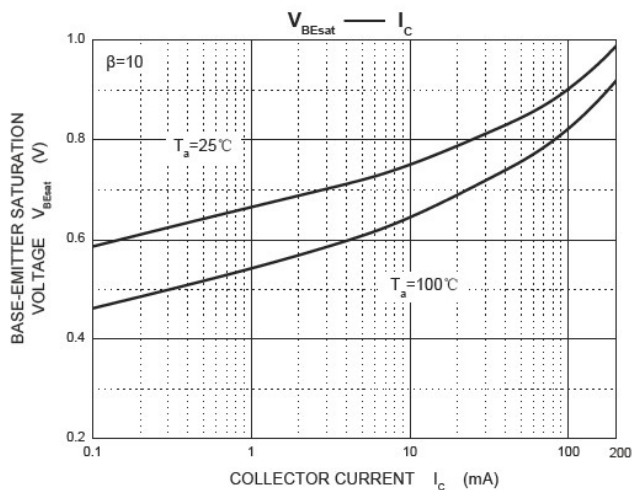
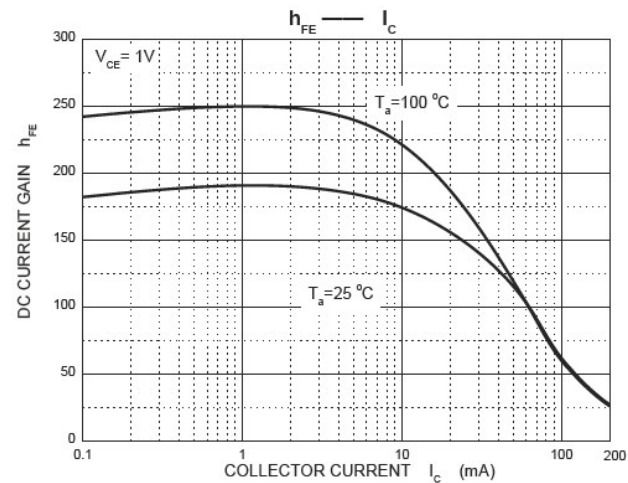
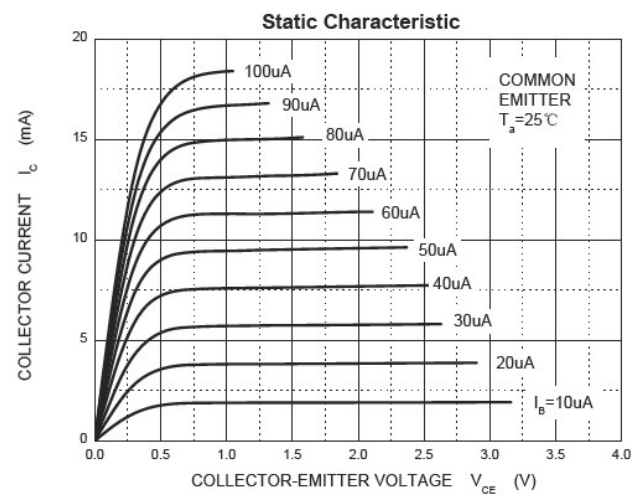
Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	40
Collector-Base Voltage	V_{CBO}	V	60
Emitter-Base Voltage	V_{EBO}	V	6
Collector Current, Continuous	I_C	mA	200
Collector Power Dissipation	P_D	mW	200
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C/W}$	625

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

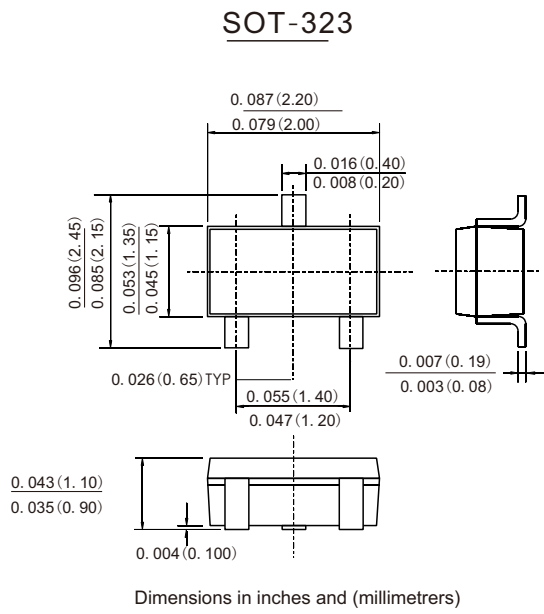
Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	$I_C=1.0\text{mA}, I_B=0$	40	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C=10\mu\text{A}, I_E=0$	60	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E=10\mu\text{A}, I_C=0$	6	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB}=60\text{V}, I_E=0$	---	60
Collector cut-off Current	I_{CEX}	nA	$V_{CE}=30\text{V}, V_{BE}(\text{off})=3\text{V}$	---	50
DC Current Gain	$h_{FE(1)}$		$I_C=0.1\text{mA}, V_{CE}=1\text{V}$	40	---
	$h_{FE(2)}$		$I_C=1\text{mA}, V_{CE}=1\text{V}$	70	---
	$h_{FE(3)}$		$I_C=10\text{mA}, V_{CE}=1\text{V}$	100	300
	$h_{FE(4)}$		$I_C=50\text{mA}, V_{CE}=1\text{V}$	60	---
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	V	$I_C=10\text{mA}, I_B=1\text{mA}$	---	0.25
			$I_C=50\text{mA}, I_B=5\text{mA}$	---	0.30
Base-Emitter Saturation Voltage	$V_{BE(\text{sat})}$	V	$I_C=10\text{mA}, I_B=1\text{mA}$	---	0.85
			$I_C=50\text{mA}, I_B=5\text{mA}$	---	0.95
Output Capacitance	C_{ob}	pF	$V_{CB}=5\text{V}, f=1.0\text{MHz}, I_E=0$	---	4
Input Capacitance	C_{ib}	pF	$V_{EB}=5\text{V}, f=1.0\text{MHz}, I_C=0$	---	8
Current Gain-Bandwidth Product	f_T	MHz	$I_C=10\text{mA}, V_{CE}=20\text{V}$ $f=100\text{MHz}$	300	---
Delay time	t_d	nS	$V_{CE}=3\text{V}, V_{BE}(\text{off})=-0.5\text{V}$ $I_C=10\text{mA}, I_{B1}=1\text{mA}$	---	35
Rise time	t_r	nS		---	35
Storage time	t_s	nS	$V_{CE}=3\text{V}, I_C=10\text{mA},$ $I_{B1}=I_{B2}=1\text{mA}$	---	225
Fall time	t_f	nS		---	75

Pulse test:pulse width $\leq 300\mu\text{s}$,duty cycle $\leq 2.0\%$

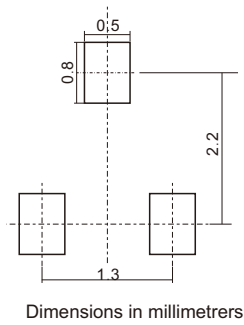
Characteristics(Typical)



Outline Dimensions



Suggested pad layout



Friendship Reminder

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