

PNP Silicon Epitaxial Planar Transistor

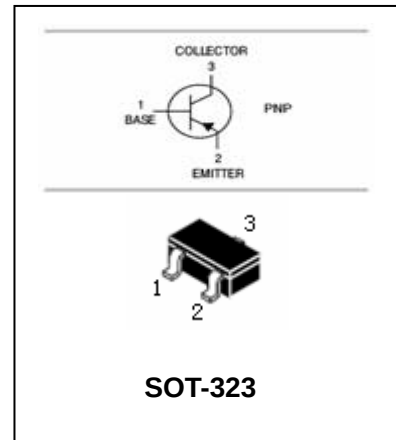
MMST4403

FEATURES

- Power dissipation.($P_C=200\text{mW}$)
- Epitaxial planar die construction.
- Also available in lead free version.



Lead-free



APPLICATIONS

- General purpose application and switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMST4403	K3T	SOT-323

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-600	mA
P_C	Collector Dissipation	200	mW
T_j, T_{stg}	Junction and Storage Temperature	-55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

PNP Silicon Epitaxial Planar Transistor**MMST4403**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-40			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -35V, I_E = 0$			-0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = -35V, I_B = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4V, I_C = 0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -2V, I_C = -150mA$	100		300	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -150mA, I_B = -15mA$			-0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -150mA, I_B = -15mA$			-0.95	V
Transition frequency	f_T	$V_{CE} = -10V, I_C = -20mA, f = 100MHz$	200			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			8.5	pF
Delay time	t_d	$V_{CC} = -30V, V_{BE(off)} = -2V, I_C = -150mA, I_{B1} = -15mA$			15	nS
Rise time	t_r				20	nS
Storage time	t_s	$V_{CC} = -30V, I_C = -150mA, I_{B1} = I_{B2} = -15mA$			225	nS
Fall time	t_f				30	nS

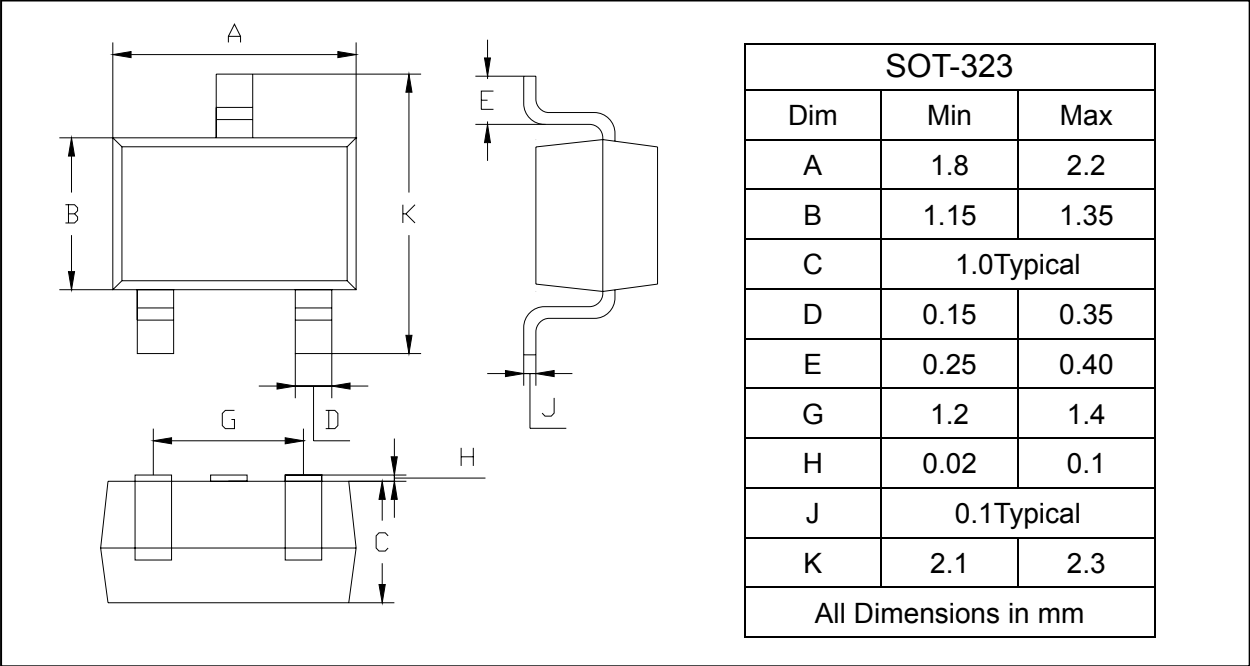
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MMST4403

PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



PACKAGE INFORMATION

Device	Package	Shipping
MMST4403	SOT-323	3000/Tape&Reel