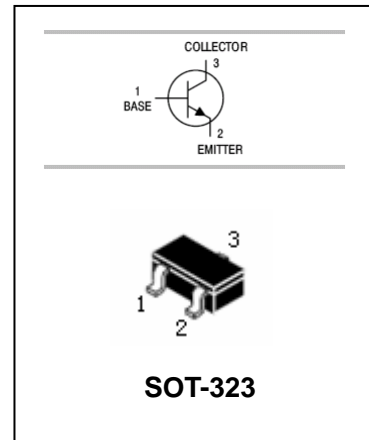


Silicon Epitaxial Planar Transistor

MMST2222A

FEATURES

- Epitaxial planar die construction.
- Complements the MMST2907A.
- Ultra-small surface mount package.



APPLICATIONS

- NPN Silicon Epitaxial Planar Transistor.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMST2222A	K3P	SOT-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	75	V
V_{CEO}	Collector-Emitter Voltage	40	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	600	mA
P_C	Collector Dissipation	200	mW
T_j, T_{stg}	Junction and Storage Temperature	-55~150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Silicon Epitaxial Planar Transistor**MMST2222A**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	75			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	40			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$			10	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=3V, I_C=0$			10	nA
DC current gain	h_{FE}	$V_{CE}=10V, I_C=0.1mA$	35	-		
		$V_{CE}=10V, I_C=1mA$	50	-		
		$V_{CE}=10V, I_C=10mA$	75	-		
		$V_{CE}=10V, I_C=150mA$	100	300		
		$V_{CE}=10V, I_C=500mA$	40	-		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_{CE}=500mA, I_B=50mA$			0.3	V
		$I_{CE}=150mA, I_B=15mA$			1.0	
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_{CE}=500mA, I_B=50mA$		0.6	1.2	V
		$I_{CE}=150mA, I_B=15mA$		-	2.0	
Transition frequency	f_T	$V_{CE}=20V,$ $I_C=20mA, f=100MHz$		300		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$			8	pF

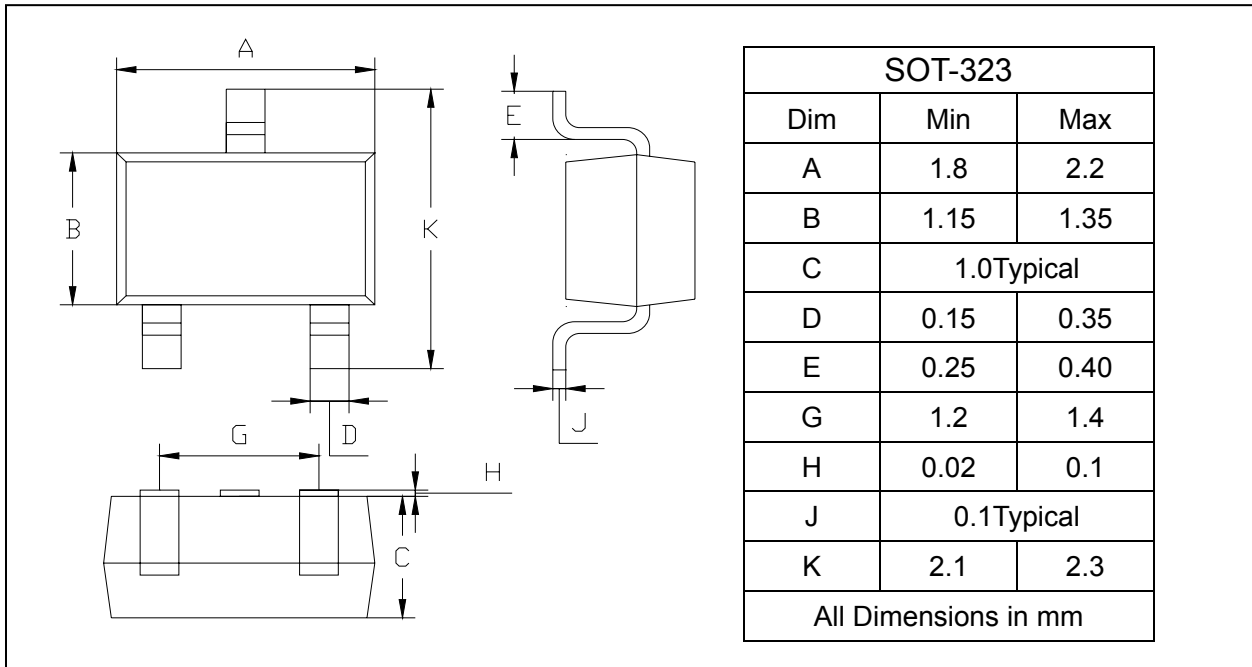
Silicon Epitaxial Planar Transistor

MMST2222A

PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



PACKAGE INFORMATION

Device	Package	Shipping
MMST2222A	SOT-323	3000/Tape&Reel