

NPN General Purpose Amplifier

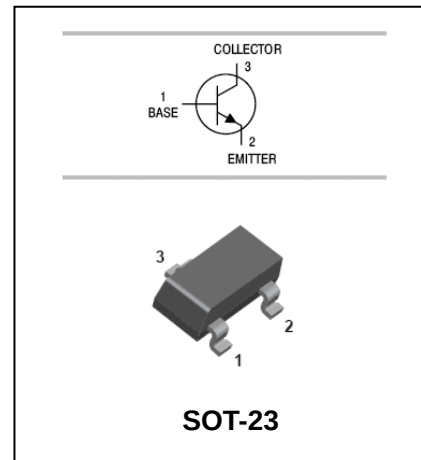
MMBT2369

FEATURES

- Epitaxial planar die construction.
- Ultra-small surface mount package.



Lead-free



APPLICATIONS

- Use as a medium power amplifier.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMBT2369	M1J	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	15	V
V_{EBO}	Emitter-Base Voltage	4.5	V
I_C	Collector Current -Continuous	200	mA
P_C	Collector Dissipation	300	mW
T_j, T_{stg}	Junction and Storage Temperature	-55to+150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	40		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	15		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	4.5		V
Collector cut-off current	I_{CBO}	$V_{CB}=20V, I_E=0$		0.4	μA
DC current gain	h_{FE}	$V_{CE}=1.0V, I_C=10mA$	40	120	
		$V_{CE}=2.0V, I_C=100mA$	20		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1.0mA$		0.25	V
Output capacitance	C_{obo}	$V_{CE}=5.0V, I_E=0, f=1.0MHz$		4.0	pF

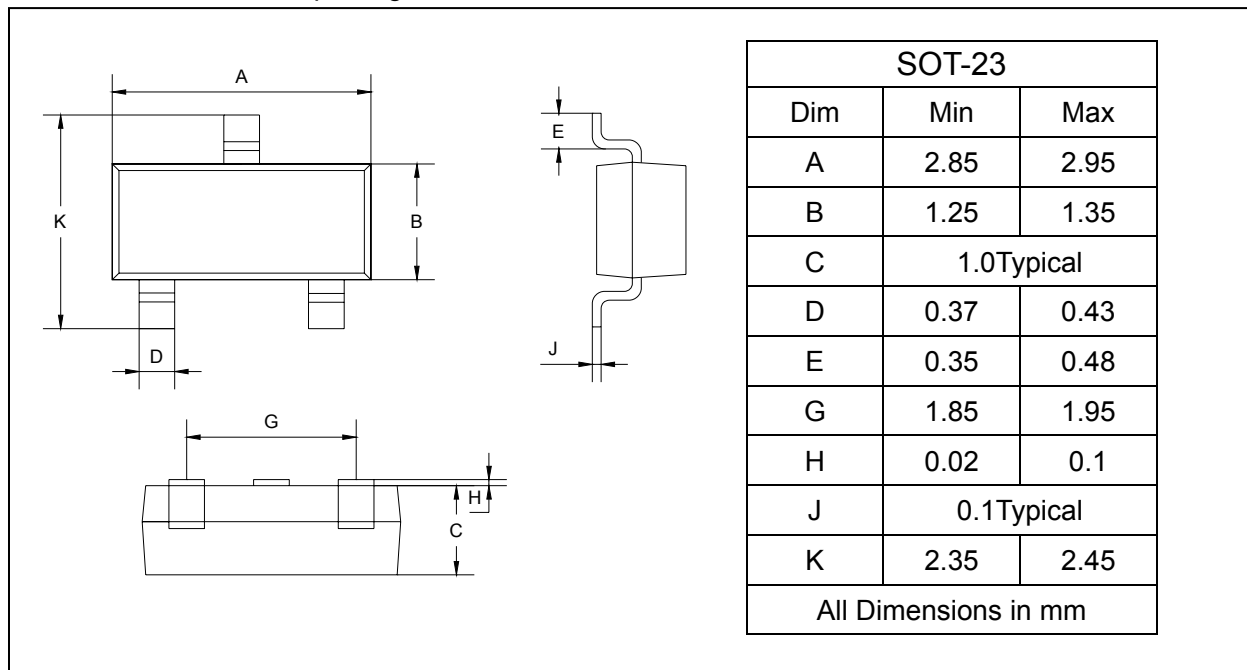
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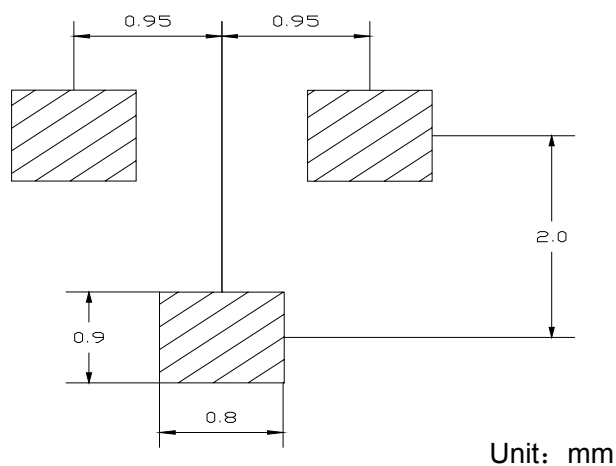
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMBT2369	SOT-23	3000/Tape&Reel