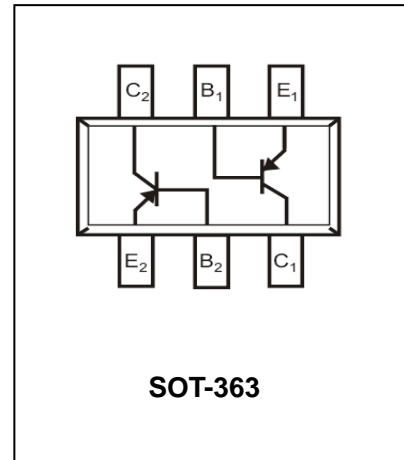


Dual PNP Small Signal Surface Mount Transistor **MMDT5401**

FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available MMDT5551.
- Ultra-small surface mount package.



APPLICATIONS

- For Low power amplification and switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
MMDT5401	K4M	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

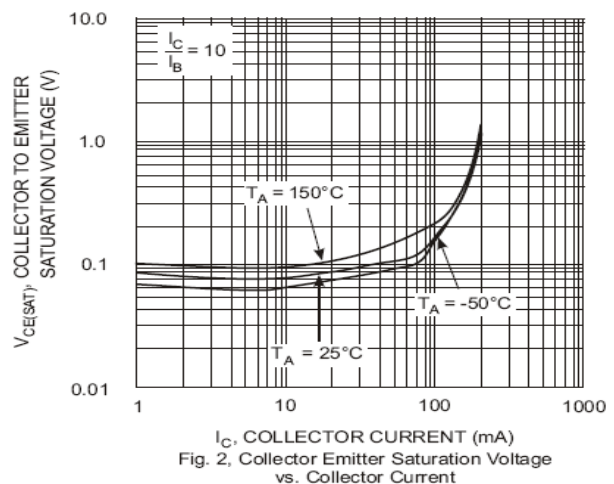
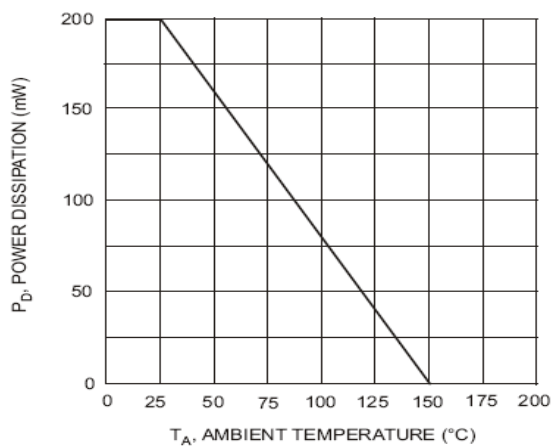
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-200	mA
P _D	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance, Junction to Ambient	625	°C/W
T _j , T _{stg}	Junction and Storage Temperature	-55 to+150	°C

Dual PNP Small Signal Surface Mount Transistor **MMDT5401**

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A$ $I_E = 0$	-160	-	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1.0mA$ $I_B = 0$	-150	-	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A$ $I_C = 0$	-5	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = -120V$ $I_E = 0$ $V_{CB} = -120V$ $I_E = 0$ $T_A = 100^\circ C$	-	-50	nA μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -3V$ $I_C = 0$	-	-50	nA
DC current gain	h_{FE}	$V_{CE} = -5V$ $I_C = -1.0mA$	50	-	-
		$V_{CE} = -5V$ $I_C = -10mA$	60	240	
		$V_{CE} = -5V$ $I_C = -50mA$	50	-	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10mA$ $I_B = -1.0mA$ $I_C = -50mA$ $I_B = -5.0mA$	-	-0.2 -0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -10mA$ $I_B = -1.0mA$ $I_C = -50mA$ $I_B = -5.0mA$	-	-1.0	V
Transition frequency	f_T	$V_{CE} = -10V$ $I_C = -10mA$ $f = 100MHz$	100	300	MHz
Output Capacitance	C_{obo}	$V_{CB} = -10V, f = 1.0MHz, I_E = 0$	-	6	pF
Noise Figure	NF	$V_{CE} = -5V$ $I_C = -200\mu A$ $f = 1.0KHz$	-	8.0	dB

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

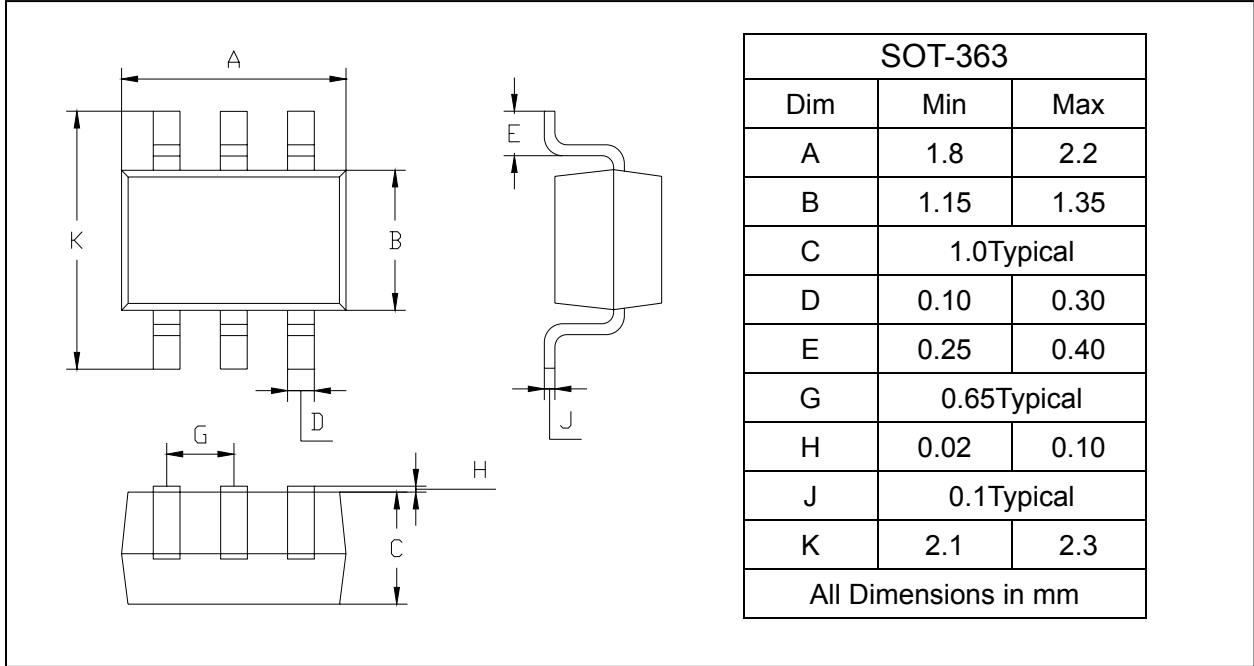


Dual PNP Small Signal Surface Mount Transistor MMDT5401

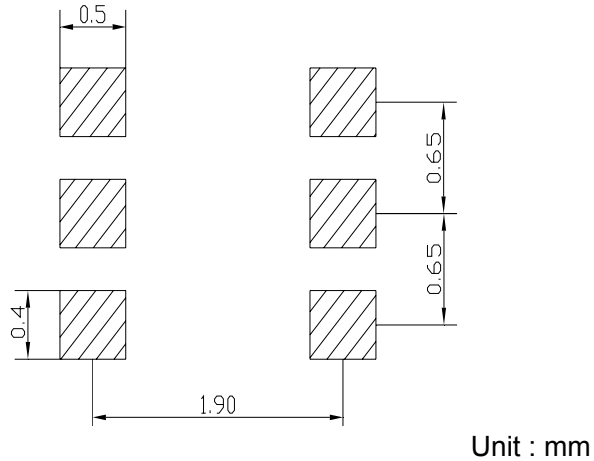
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
MMDT5401	SOT-363	3000/Tape&Reel

www.s-manuals.com