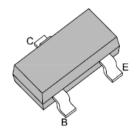
MMBT5401

SMD High Voltage Transistor (PNP)

Features

- This device is designed for high voltage driver applications
- RoHS compliance



SOT-23



Mechanical Data

Case:	SOT-23, Plastic Package			
Terminals:	Solderable per MIL-STD-202G, Method 208			
Weight:	0.008 gram			

Maximum Ratings (*T Ambient=25°C unless noted otherwise*)

Symbol	Description	MMBT5401	Unit
	Marking Code	2L	
-Усво	Collector-Base Voltage	160	V
-VcEO	Collector-Emitter Voltage	150	V
-Vево	Emitter-Base Voltage	5	V
-lc	Collector Current	500	mA
Ptot	Power Dissipation up to TA=25°C	250	mW
Reja	Thermal Resistance, Junction to Ambient	500	K/W
TJ	Junction Temperature	150	° C
Тѕтс	Storage Temperature Range	-55 to +150	°C

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Rev. A/AH 2009-01-12

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SMD High Voltage Transistor (PNP)

MMBT5401

Electrical Characteristics (T Ambient=25°C unless noted otherwise)

Symbol	Description	MMBT5401		I In:i4	O a maltitle me
		Min.	Max.	Unit	Conditions
hFE	D.C. Current Gain	50	-		-VCE=5V, -IC=1mA
		60	240		-VCE=5V, -lC=10mA
		50	-		-Vce=5V, -lc=50mA
-V(BR)CEO	Collector-Emitter Breakdown Voltage	150	-	V	-IC=1mA, IB=0
-V(BR)CBO	Collector-Base Breakdown Voltage	160	-	V	-l c =100μA, l E =0
-V(BR)EBO	Emitter-Base Breakdown Voltage	5	-	V	-IE=10μA, IC=0
-VCE(sat)	Collector-Emitter Saturation Voltage	-	0.2	V	-lc=10mA, -lB=1mA
		-	0.5	V	-l c =50mA, -l B =5mA
-VBE(sat)	Base-Emitter Saturation Voltage	-	1	V	-IC=10mA, -IB=1mA
		-	1	V	-I c =50mA, -I B =5mA
-Ісво	Collector-Base Cut-off Current	-	50	nA	-VCB=120V, IE=0
		-	50	μΑ	-Vcb=120V, IE=0, TA=150° C
hfe	Small Signal Current Gain	40	200		-VCE=10V, IC=1mA f=1KHz,
Ссво	Output Capacitance	-	6	pF	-VcB=10V, IE=0, f=1MHz
fт	Transition Frequency	100	300	MHz	-VCE=10V, -IC=10mA, f=100MHz, TA=25° C
F	Noise Figure	-	8	dB	-VCE=5V, IC=200μA, f=10Hz to 15.7KHz Rs=10Ω, T a =25° C



MMBT5401

Dimensions in mm

SOT-23

Pin configuration

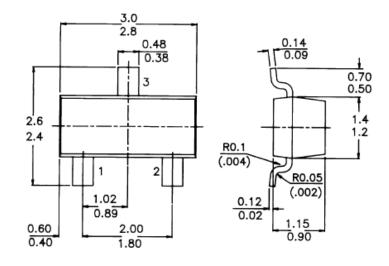
1 = BASE

2 = EMITTER

3 = COLLECTOR



How to contact us:



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