PNP General Purpose Transistor multicomp



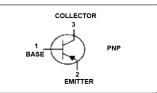


Features:

- Epitaxial planar die construction
- Complementary NPN type available (MMBT4401)
- Also available in lead free version
- Ideal for medium power amplification and switching

Applications:

Ideal for medium power amplification and switching





SOT-23

Maximum Rating @ TA = 25°C unless otherwise specified

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	-40	
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6	
Collector Current (DC)	I _C	600	А
Collector Dissipation	P _C	350	W
Junction and Storage Temperature	T_{j},T_{stg}	-55 to +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 = -100μA, I _E = 0	-40		
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-40		
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I _E = -100μA, I _C = 0	-5		

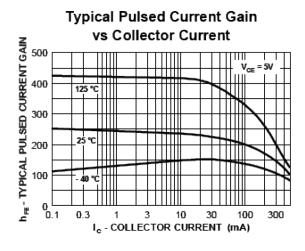


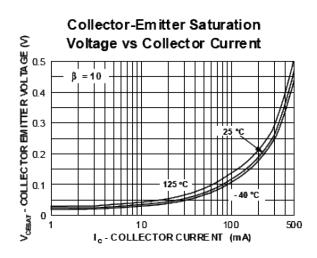




Parameter	Symbol	Test conditions	Min.	Max.	Unit
Collector Cut-Off Current	I _{CEX}	V _{CE} = -35V, V _{EB} = -0.4V		0.4	
Base Cut-Off Current	I _{BL}	V _{CE} = -35V, V _{EB} = -0.4V	-0.4V 0.1		μA
DC Current Gain	h _{FE}	V_{CE} = -1V; I_{C} = -0.1mA V_{CE} = -1V; I_{C} = -1mA V_{CE} = -1V; I_{C} = -10mA V_{CE} = -2V; I_{C} = -150mA V_{CE} = -2V; I_{C} = -500mA	30 60 100 100 20	300	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = 50mA	-	-0.4 -0.75	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	$I_C = -150 \text{mA}; I_B = -15 \text{mA}$ $I_C = -500 \text{mA}; I_B = -50 \text{mA}$	-0.75	-0.95 -1.3	
Transition Frequency	f _T	I _C = -20mA; V _{CE} = -10V; f =100MHz	200	-	MHz

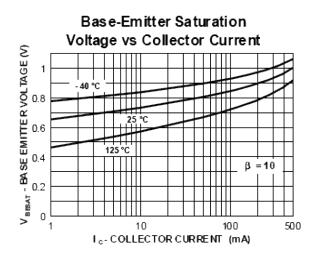
Typical Characteristics @ TA = 25°C unless otherwise specified

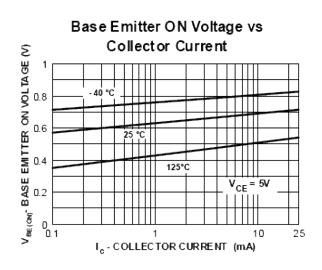




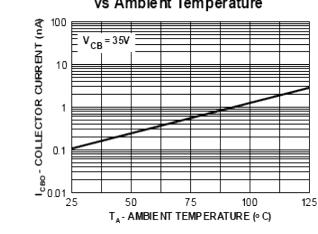
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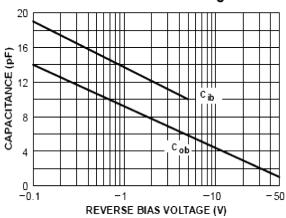




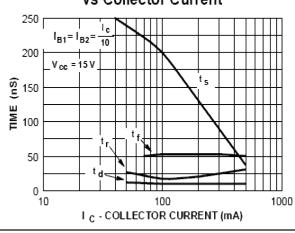
Collector-Cutoff Current vs Ambient Temperature



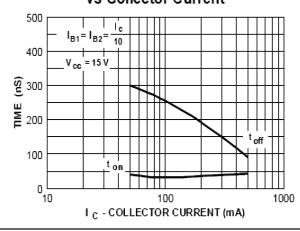
Input and Output Capacitance vs Reverse Bias Voltage



Switching Times vs Collector Current



Turn On and Turn Off Times vs Collector Current



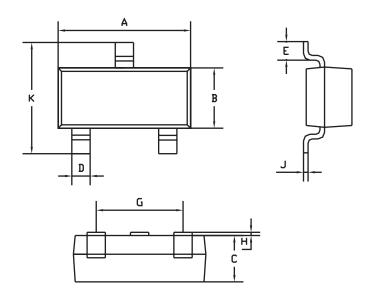
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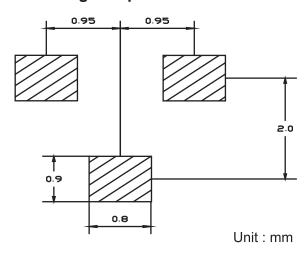


Plastic Surface Mounted Package:



SOT-23			
Dim	Min	Max	
А	2.85	2.95	
В	1.25	1.35	
С	1 Typical		
D	0.37	0.43	
Е	0.35	0.48	
G	1.85	1.95	
Н	0.02	0.1	
J	0.1 Typical		
K	2.35	2.45	
All Dimensions in mm			

Soldering Footprint:



Part Number Table

Description	Part Number
Transistor, Bipolar, PNP, -40V, -600mA, SOT-23	MMBT4403-7-F

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