查询MMBTA28-7-F供应商



专业PCB打样工厂,24小时加急出货 捷多邦.



Max

0.51

1.40

2.50

1.03

0.60

2.05

3.00

0.10

1.10

0.61

0.180

8°

NPN SURFACE MOUNT DARLINGTON TRANSISTOR

Features

.

Epitaxial Planar Die Construction SOT-23 Ideal for Low Power Amplification and Switching Dim Min High Current Gain Α 0.37 ¢ Lead Free/RoHS Compliant (Note 3) в 1.20 В С 2.30 **Mechanical Data** B TOP VIEW E D 0.89 ← D → Case: SOT-23 Е 0.45 Case Material: Molded Plastic. UL Flammability G 1.78 Classification Rating 94V-0 н 2.80 Moisture Sensitivity: Level 1 per J-STD-020C J 0.013 Terminal Connections: See Diagram ۰D κ 0.903 Terminals: Solderable per MIL-STD-202, Method 208 L 0.45 Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe). М 0.085 Marking (See Page 3): K6R Ô° Ordering & Date Code Information: See Page 3 All Dimensions in mm Weight: 0.008 grams (approximate) В

Pb

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit	
Collector-Base Voltage	V _{CBO}	80	V	
Collector-Emitter Voltage	V _{CEO}	80	V	
Emitter-Base Voltage	V _{EBO}	12	V	
Collector Current - Continuous	Ι _C	500	mA	
Power Dissipation (Note 1)	Pd	300	mW	
Thermal Resistance, Junction to Ambient (Note 1)	R JA	417	°C/W	
Operating and Storage and Temperature Range	Tj, TSTG	-55 to +150	°C	

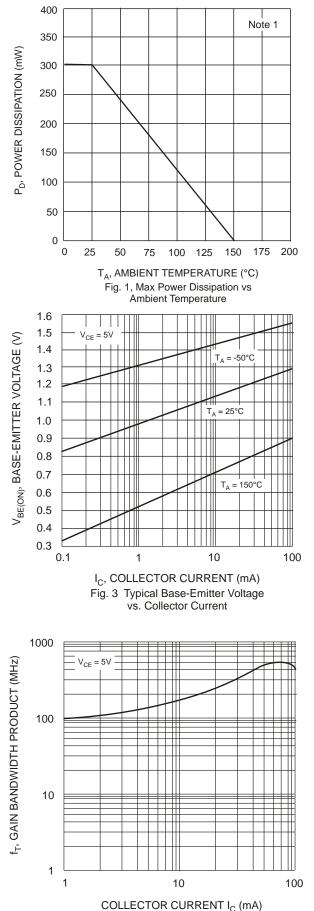
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition		
OFF CHARACTERISTICS (Note 2)							
Collector-Base Breakdown Voltage	V _{(BR)CBO}	V _{(BR)CBO} 80		V	$I_{\rm C} = 100 \mu A I_{\rm E} = 0$		
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	12		V	$I_{\rm E} = 100 \mu A I_{\rm C} = 0$		
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	80		V	I _C = 100μΑ I _B = 0		
	Ісво		100	nA	$V_{CB} = 60V, I_E = 0$		
Collector Cutoff Current	ICES	190 1	500	nA	V _{CE} = 10V		
Emitter Cutoff Current	I _{EBO}		100	nA	$V_{EB} = 10V, I_{C} = 0$		
ON CHARACTERISTICS (Note 2)	444						
DC Current Gain	h _{FE}	10,000 10,000			$\label{eq:IC} \begin{array}{ll} I_{C} = & 10mA, V_{CE} = 5.0V \\ I_{C} = & 100mA, V_{CE} = 5.0V \end{array}$		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}		1.5	V	$I_{\rm C} = 100 {\rm mA}, I_{\rm B} = 100 {\rm \mu A}$		
Base-Emitter Saturation Voltage	V _{BE(SAT)}		2.0	V	$I_{C} = 100 \text{mA}, V_{CE} = 5.0 \text{V}$		
SMALL SIGNAL CHARACTERISTICS							
Output Capacitance	C _{obo}	8.0 Typical		pF	$V_{CB} = 10V, f = 1.0MHz, I_E = 0$		
Input Capacitance	C _{ibo}	15 Typical		pF	$V_{EB} = 0.5V, f = 1.0MHz, I_{C} = 0.0000000000000000000000000000000000$		
Current Gain-Bandwidth Product	fT	125		MHz	$V_{CE} = 5.0V, I_{C} = 10mA, f = 100MHz$		

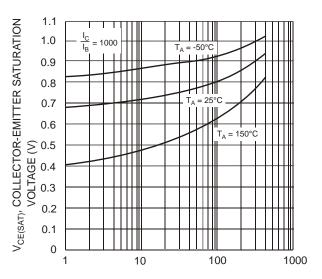
vice mounted on FR-4 PCB, 1.6x1.6x0.06 inch pad layout as shown on Diodes Inc. suggested pad layout document AP02001 which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. SC2COIShort duration pulse test used to minimize self-heating effect.

No purposefully added lead. 3.

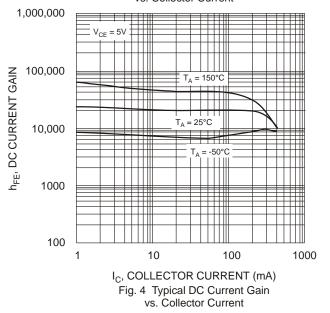












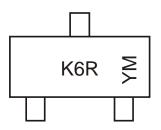


Ordering Information (Note 4)

Device	Packaging	Shipping		
MMBTA28-7-F	SOT-23	3000/Tape & Reel		

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



K6R = Product Type Marking Code YM = Date Code Marking Y = Year ex: T = 2006 M = Month ex: 9 = September

Date Code Key

Year			2	006	2007	200	8	2009	2010	201	1	2012
Code			Т	U V			W	Х	Y		Z	
Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

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