

BIPOLAR TRANSISTOR CHIP MEM13003T

General Description

Switching regulator application.

High voltage and high speed.

Switching application.

Features

High Collector Voltage:700V

Package:TO-92

Pin Configuration

Pin	Description
1	EMITTER (E)
2	COLLECTOR (C)
3	BASE (B)



Maximum Ratings(Ta=25)

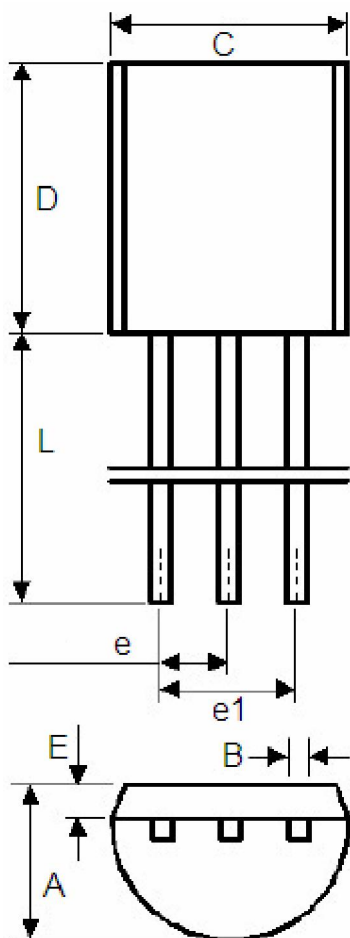
Characteristics		Symbol	Rating	Unit
Collector-Base Voltage		V_{CBO}	700	V
Collector-Emitter Voltage		V_{CEO}	400	V
Emitter-Base Voltage		V_{EBO}	9	V
Collector Current	DC	I_C	1.5	A
	Pulse	I_{CP}	3	
Base Current		I_B	0.75	A
Collector Power Dissipation (Ta=25)		P_C	0.9	W
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 ~ 150	

Electrical Characteristics (Ta=25)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	700	-	-	V
$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	400	-	-	V
$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	9	-	-	V
I_{CBO}	$V_{CB}=700V, I_E=0$	-	-	100	μA
I_{CEO}	$V_{CE}=400V, I_B=0$	-	-	50	μA
I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	10	μA
h_{FE}	$V_{CE}=10V, I_C=0.2A$	20	-	40	-
	$V_{CE}= 5V, I_C=0.5A$	15	-	40	-
$V_{BE(sat)}$	$I_C=0.5A, I_{BE}=0.1A$	-	-	1	V
	$I_C=1A, I_{BE}=0.25A$	-	-	1.2	
$V_{CE(sat)}$	$I_C=1A, I_{BE}=0.25A$	-	-	1	V
	$I_C=1.5A, I_{BE}=0.5$	-	-	3	

Package Information

Package Type: TO-92



Symbol	Millimeters	
	Min.	Max.
A	3.4	3.8
B	0.3	0.5
C	4.4	4.8
D	4.4	4.8
E	0.9	1.5
e	1.17	1.37
e1	2.39	2.69
L	12	16

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