



东莞市华远电子有限公司

DONG GUAN SHI HUA YUAN ELECTRON CO.,LTD.

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TO-92 Plastic-Encapsulate Transistors

2SA844

TRANSISTOR (PNP)

FEATURES

Power dissipation

P_{CM} : 0.3 W ($T_{amb}=25$)

Collector current

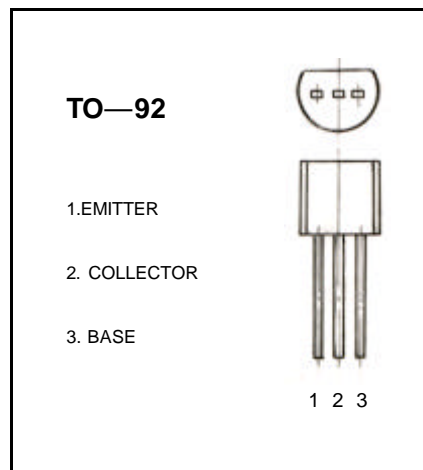
I_{CM} : -0.1 A

Collector-base voltage

$V_{(BR)CBO}$: -55 V

Operating and storage junction temperature range

T_J , T_{stg} : -55 to +150



ELECTRICAL CHARACTERISTICS ($T_{amb}=25$ unless otherwise specified)

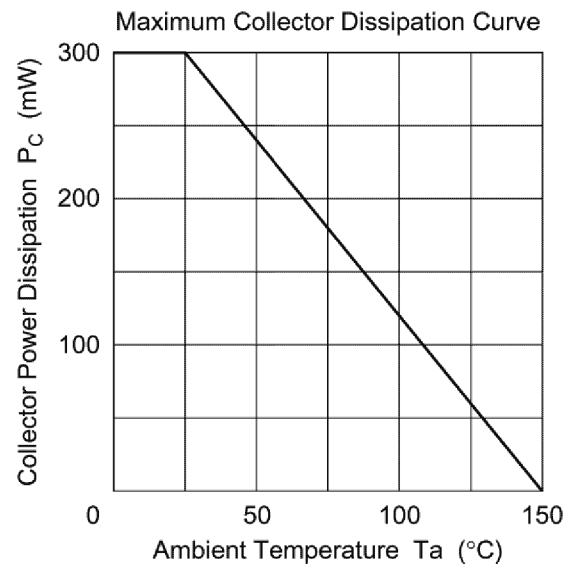
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10 \mu A$, $I_E = 0$	-55			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1 mA$, $I_B = 0$	-55			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10 \mu A$, $I_C = 0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB} = -18V$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -2 V$, $I_C = 0$			-0.05	μA
DC current gain	h_{FE}	$V_{CE} = -12V$, $I_C = -2mA$	160		800	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10mA$, $I_B = -1 mA$			-0.5	V
Base-emitter voltage	$V_{BE(on)}$	$V_{CE} = -12V$, $I_C = -2mA$			-0.75	V
Transition frequency	f_T	$V_{CE} = -12V$, $I_C = -2mA$	150			MHz

CLASSIFICATION OF h_{FE}

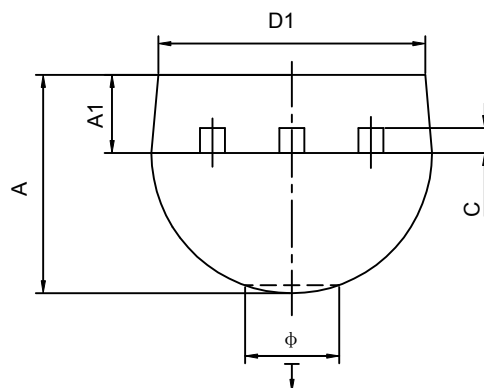
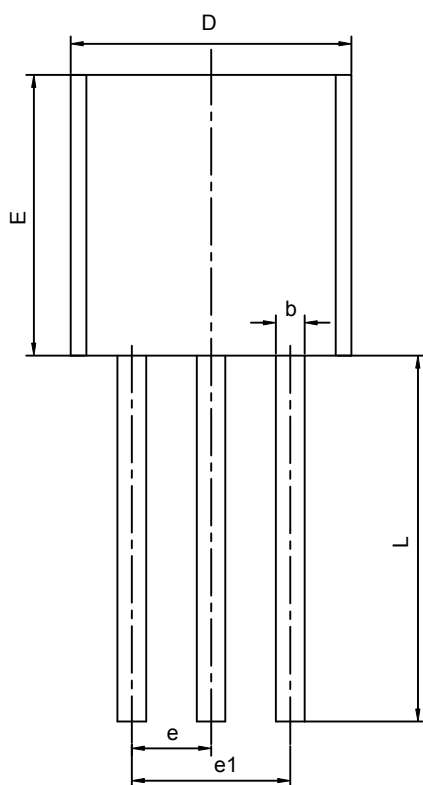
Rank	C	D	E
Range	160-320	250-500	400-800

Typical Characteristics

2SA844



TO-92 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.400	4.700	0.173	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Ö		1.600		0.063
↓	0.000	0.380	0.000	0.015