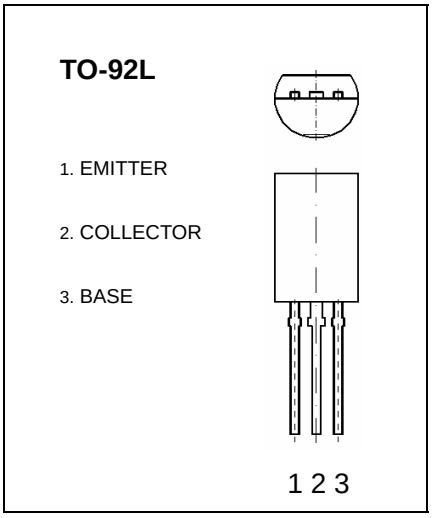
东莞市华远电子有限公司
DONG GUAN SHI HUA YUAN ELECTRON CO.,LTD.
TEL：86-769-5335378 86-769-5305266 FEX：86-769-5316189

TO-92L Plastic-Encapsulate Transistors

2SD468 TRANSISTOR（NPN）



FEATURES

Power dissipation

P_{CM} ： 0.9 W（Tamb=25℃）

Collector current

I_{CM} ： 1 A

Collector-base voltage

$V_{(BR)CBO}$： 25 V

Operating and storage junction temperature range

T_J，T_{stg}: -55℃ to +150℃

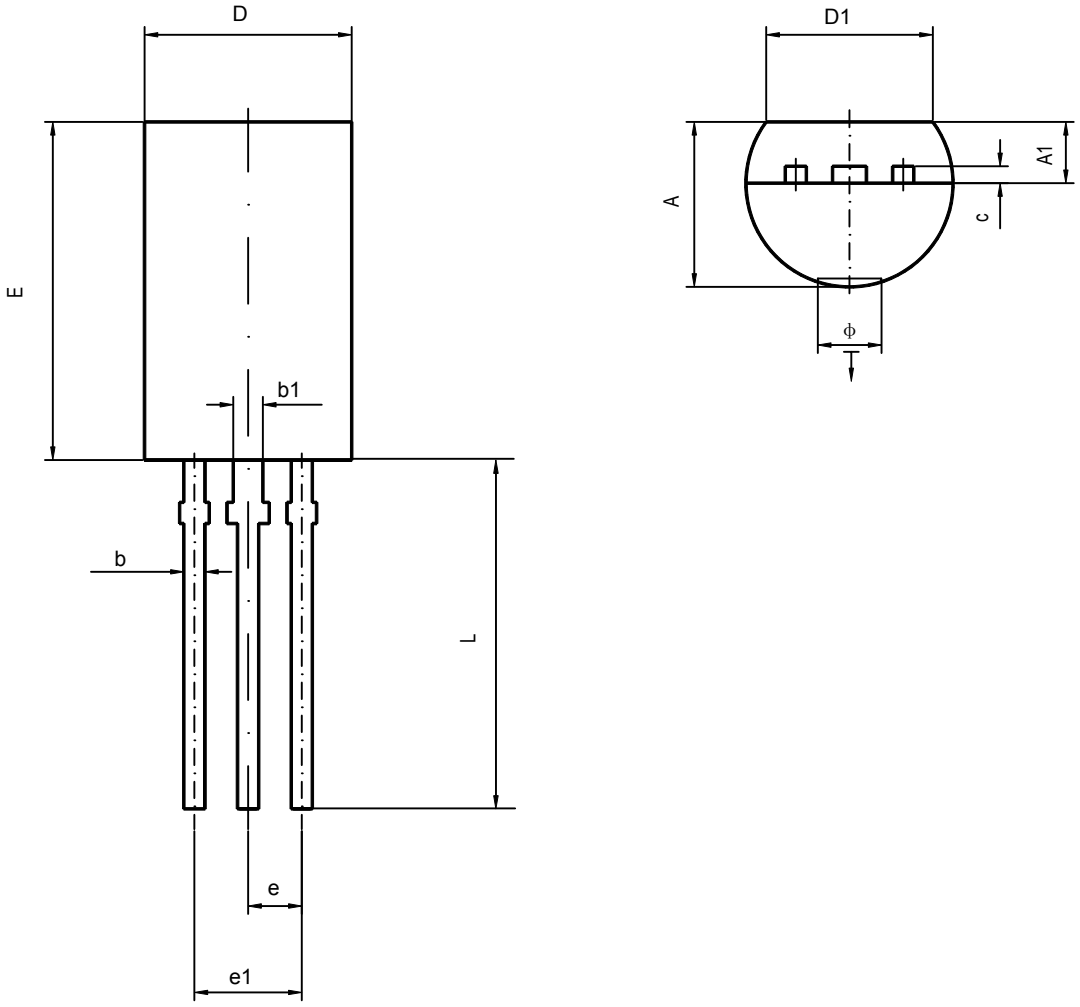
ELECTRICAL CHARACTERISTICS（Tamb=25℃ unless otherwise specified）

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	Ic=10μA,I_E=0	25			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	Ic=1mA,I_B=0	20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=10μA,I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=20V,I_E=0			1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=4V,I_C=0			1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=2V,I_C=500mA	85		240	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=800mA,I_B=80mA			0.5	V
Base-emitter voltage	V_{BE}	V_{CE}=2V,I_C=500mA			1	V
Transition frequency	f_T	V_{CE}=2V,I_C=500mA		190		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0,f=1MHz		22		pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	B	C
Range	85-170	120-240

TO-92L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.700	4.100	0.146	0.161
A1	1.280	1.580	0.050	0.062
b	0.350	0.550	0.014	0.022
b1	0.600	0.800	0.024	0.031
c	0.350	0.450	0.014	0.018
D	4.700	5.100	0.185	0.201
D1	4.000		0.157	
E	7.800	8.200	0.307	0.323
e	1.270TYP		0.050TYP	
e1	2.440	2.640	0.096	0.104
L	13.800	14.200	0.543	0.559
ϕ		1.600		0.063
⊤	0.000	0.300	0.000	0.012