



东莞市华远电子有限公司

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TO-92 Plastic-Encapsulate Transistors

2SA673

TRANSISTOR (PNP)

FEATURE

Power dissipation

P_{CM} : 0.4 W ($T_{amb}=25$)

Collector current

I_{CM} : -0.5 A

Collector-base voltage

$V_{(BR)CBO}$: -35 V

Operating and storage junction temperature range

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

TO—92

1.EMITTER

2. COLLECTOR

3. BASE



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10 \mu A$, $I_E = 0$	-35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1 mA$, $I_B = 0$	-35			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10 \mu A$, $I_C = 0$	-4			V
Collector cut-off current	I_{CBO}	$V_{CB} = -20 V$, $I_E = 0$			-0.5	μA
DC current gain	$h_{FE(1)}^*$	$V_{CE} = -3V$, $I_C = -10mA$	60		320	
	$h_{FE(2)}$	$V_{CE} = -3 V$, $I_C = -500mA$	10			
Collector-emitter saturation voltage	V_{CEsat}^*	$I_C = -150mA$, $I_B = -15mA$			-0.6	V
Base-emitter voltage	V_{BE}	$V_{CE} = -3 V$, $I_C = -10mA$			-0.75	V

*Measured using pulse

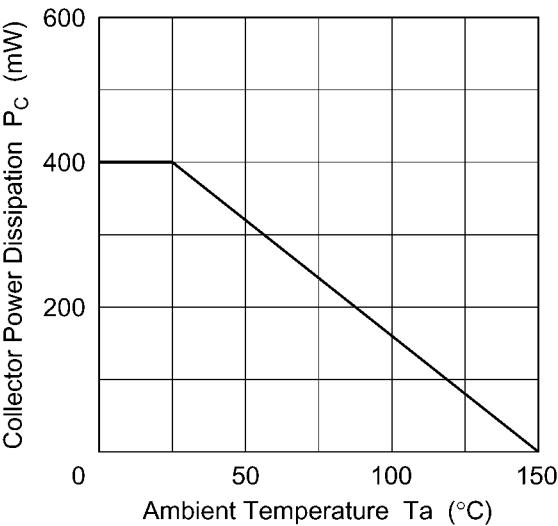
CLASSIFICATION OF $h_{FE(1)}$

Rank	B	C	D
Range	60-120	100-200	160-320

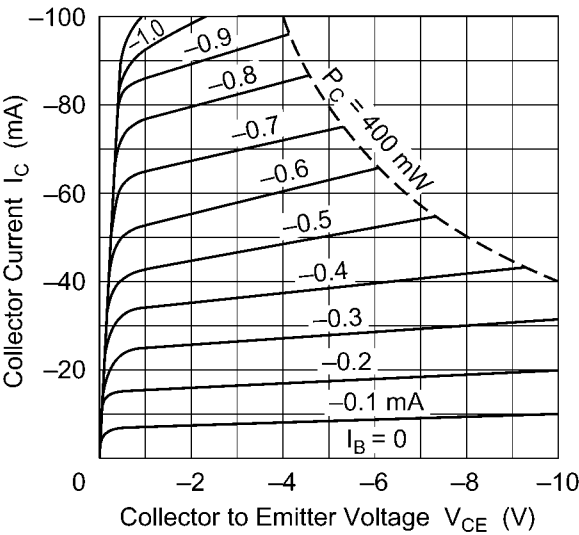
Typical characteristics

2SA673

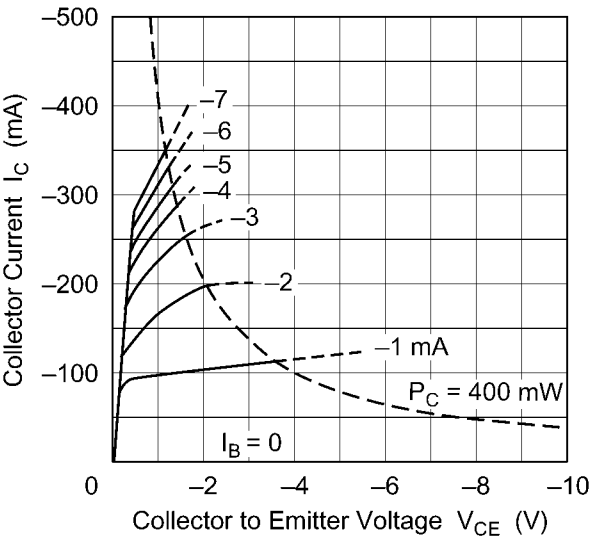
Maximum Collector Dissipation Curve



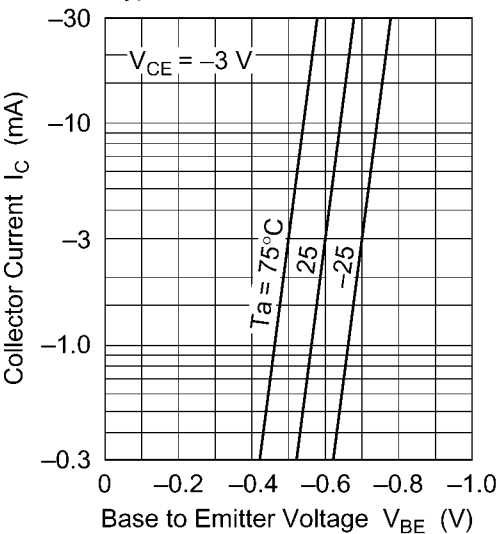
Typical Output Characteristics (1)



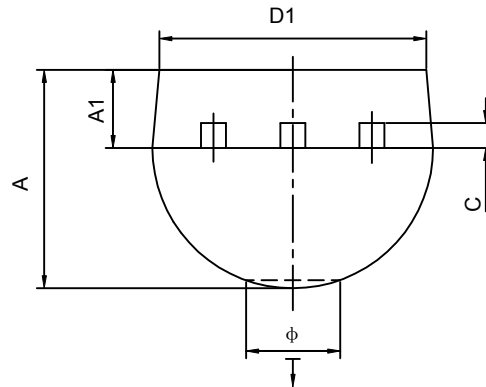
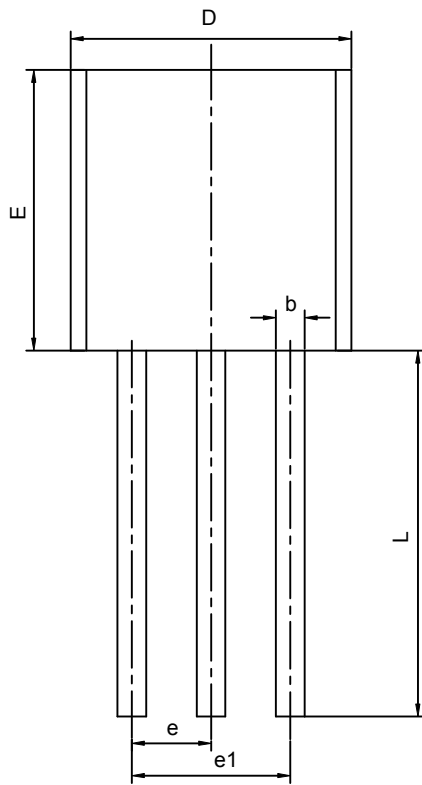
Typical Output Characteristics (2)



Typical Transfer Characteristics



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