



Pin Configuration:

1. Collector

2. Base

3. Emitter

Absolute Maximum Ratings

Parameters	Symbol	Value	Units
Collector Emitter Voltage	VCES	30	
Collector Base Voltage	Vсво	30	V
Emitter Base Voltage	Vево	10	
Collector Current Continuous	lc	500	mA
Power Dissipation at T _a = 25°C Derate Above 25°C	De	625 5	mW mW/°C
Power Dissipation at T _C = 25°C Derate Above 25°C	PD	1.5 12	W mW/°C
Operating and Storage Junction Temperature Range	ТJ, Tsтg	-55 to +150	°C
Thermal Resistance			

Junction to Ambient	Rth (j-a)	200	°C/W
Junction to Case	Rth (j-c)	83.3	0/11

Electrical Characteristics ($T_a = 25^{\circ}C$ unless otherwise specified)

Parameters	Symbol	Test Condition	Min.	Max.	Units
Collector Emitter Voltage	VCES	Ic = 100µА, Iв = 0	30	-	V
Collector Cut off Current	Ісво	Vсв = 30V, IE = 0	-	100	n A
Emitter Cut off Current	IEBO	VEB = 10V, IC = 0	-	100	nA

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Electrical Characteristics (T_a = 25°C unless otherwise specified)

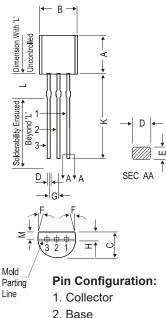
Parameters	Symbol	Test Condition	Min.	Max.	Units
DC Current Gain	*hFE	Vce=5V, Ic=10mA Vce=5V, Ic=100mA	10000 20000	-	-
Collector Emitter Saturation Voltage	*VCE (sat)	lc = 100mA, Iв = 0.1mA	-	1.5	V
Base Emitter On Voltage	*VBE (on)	Ic = 100mA, Vce = 5V	-	2	

Dynamic Characteristics

Current Gain-Bandwidth Product	**fT	Ic = 10mA, Vce = 5V f = 100MHz	125	-	MHz
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*Pulse Test : Pulse Width = ≤300µs, Duty Cycle = ≤2% **fT = |hfe| × ftest.

Diagram



 Dase	

Emitter

Dimensions	Minimum	Maximum
A	4.32	5.33
В	4.45	5.2
С	3.18	4.19
D	0.41	0.55
E	0.35	0.5
F	Ę	5°
G	1.14	1.4
Н	1.2	1.4
К	12.7	-
L	1.982	2.082
М	1.03	1.2

Part Number Table

Description	Part Number	
Darlington Transistor, TO-92	MPSA14	

Dimensions : Millimetres

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