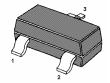


NPN Darlington Transistors

for preamplifier input applications



1. Base 2. Emitter 3. Collector SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit	
Collector Base Voltage	V _{CBO}	30	V	
Collector Emitter Voltage	V _{CEO}	30	V	
Emitter Base Voltage	V _{EBO}	10	V	
Collector Current	Ic	300	mA	
Typical Thermal Resistance 1)	$R_{\theta JA}$	556	°C/W	
Total Power Dissipation	P _{tot}	225	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	T _S	- 55 to + 150	°C	

¹ Thermal resistance from junction to ambient at P.C.B. mounted

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
	h _{FE}	10000	-	-	-
at $V_{CE} = 5 \text{ V}, I_{C} = 10 \text{ mA}$					
at $V_{CE} = 5 \text{ V}$, $I_{C} = 100 \text{ mA}$	h _{FE}	20000	-	-	-
Collector Cutoff Current					
at $V_{CB} = 30 \text{ V}$	I _{CBO}	-	-	100	nA
Collector Emitter Breakdown Voltage	V				V
at $I_C = 10 \text{ mA}$	$V_{(BR)CEO}$	30	•	-	V
Collector Emitter Saturation Voltage at $I_C = 100$ mA, $I_B = 0.1$ mA	V _{CE(sat)}	-	1	1.5	V
Base Emitter On-state Voltage				2.0	
at $I_C = 100 \text{ mA}, V_{CE} = 5 \text{ V}$	V _{BE(on)}	-	-	2.0	V
Transition Frequency at $V_{CE} = 5 \text{ V}$, $I_{C} = 50 \text{ mA}$, $f = 100 \text{ MHz}$	f _T	125	-	-	MHz

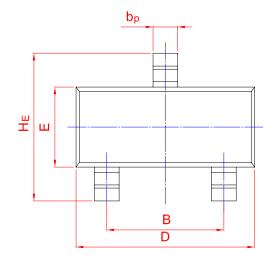
REV.08 1 of 2

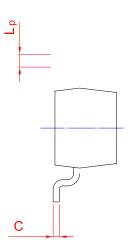


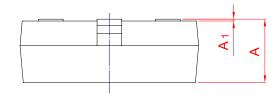
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads









UNIT	А	В	bр	С	D	E	HE	A 1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

REV.08 2 of 2

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