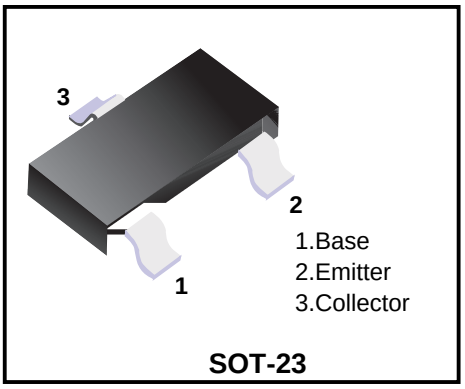
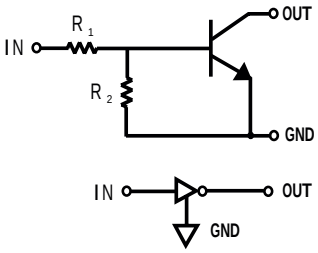
NPN Digital Transistors - DTC (R1 = R2 Series)ECA



Features

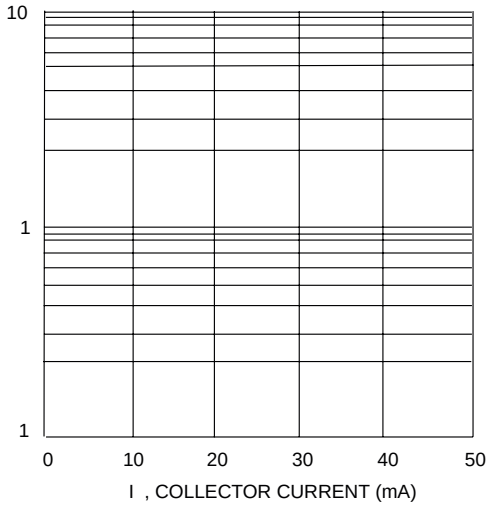
- Epitaxial Planar Die Construction
- Built-In Biasing Resistors, R1 = R2
- Complementary PNP Types Available

P/N	R1, R2 (NOM)
DTC123ECA	2.2KΩ
DTC143ECA	4.7KΩ
DTC114ECA	10KΩ
DTC124ECA	22KΩ
DTC144ECA	47KΩ
DTC115ECA	100KΩ



Parameter		Symbol	Rating	Unit
Supply Voltage		V_{CC}	50	V
Input Voltage	DTC123ECA	V_{IN}	-10 to 20	
	DTC143ECA		-10 to 30	
	DTC114ECA		-10 to 40	
	DTC124ECA		-10 to 40	
	DTC144ECA		-10 to 40	
	DTC115ECA		-10 to 40	
Output Current	DTC123ECA	I_O	100	mA
	DTC143ECA		100	
	DTC114ECA		50	
	DTC124ECA		30	
	DTC144ECA		100	
	DTC115ECA		20	
Output Current All		$I_{C(Max)}$	100	
Collector Power Dissipation		P_C	200	mW
Thermal Resistance, Junction to Ambient		$R_{\theta JA}$	625	℃/W
Junction Temperature		T_J	150	℃
Storage Temperature Range		T_{stg}	-55 to 150	

	Symbol	Test Conditions	Min	Typ	Max	Unit
	$V_{I(off)}$	Vcc= 5V,Io= 100uA	0.5	1.1		
DTC123ECA		Vo= 300mV,Io= 20mA				
DTC143ECA		Vo= 300mV,Io= 20mA				
DTC114ECA		Vo= 300mV,Io= 10mA				
DTC124ECA		Vo= 300mV,Io= 5mA				
DTC144ECA		Vo= 300mV,Io				


10
1
1
0
10
20
30
40
50
I , COLLECTOR CURRENT (mA)

Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-23			

Package Dimensions

SOT-23

	Dim.	Millimeter (mm)		mil	
		Min.	Max.	Min.	Max.

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