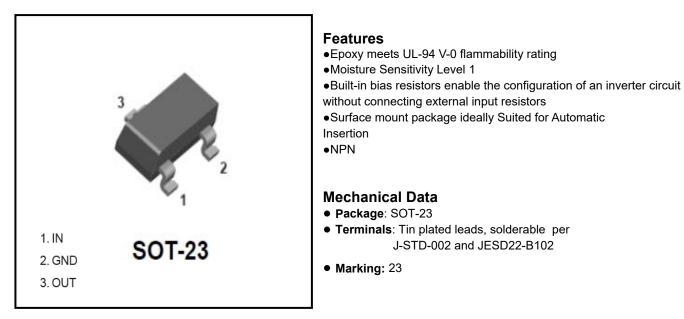
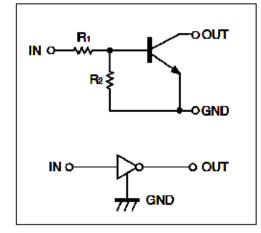
Digital Transistors (Built-in Resistors)

J-STD-002 and JESD22-B102



■Equivalent circuit



■Maximum Ratings (Ta=25°C Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	VCC	V		50
Input Voltage	VIN	V		-10 to +30
Collector Current	IC	mA		100
Power Dissipation	PD	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

DTC143ECA

■Electrical Characteristics (Ta=25°C unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	ТҮР	МАХ
Input voltage	VI _(off)	V	VCC=5V,Ic=100uA	0.5		
	VI _(on)	V	V0=0.3V,Ic=20mA			3.0
Output voltage	Vo _(on)	V	lo /li =10mA/0.5 mA			0.3
Output current	I _{O(off)}	uA	VCC=50V, Vi=0			0.5
DC current gain	GI		Vo=5V, lo =10mA	20		
Input resistance	R ₁	kΩ		3.29	4.7	6.11
Resistance ratio	R ₂ /R ₁			0.8	1	1.2
Transition frequency	fT	MHz	Vo=10V,IO=5mA,f=100MHz		250	

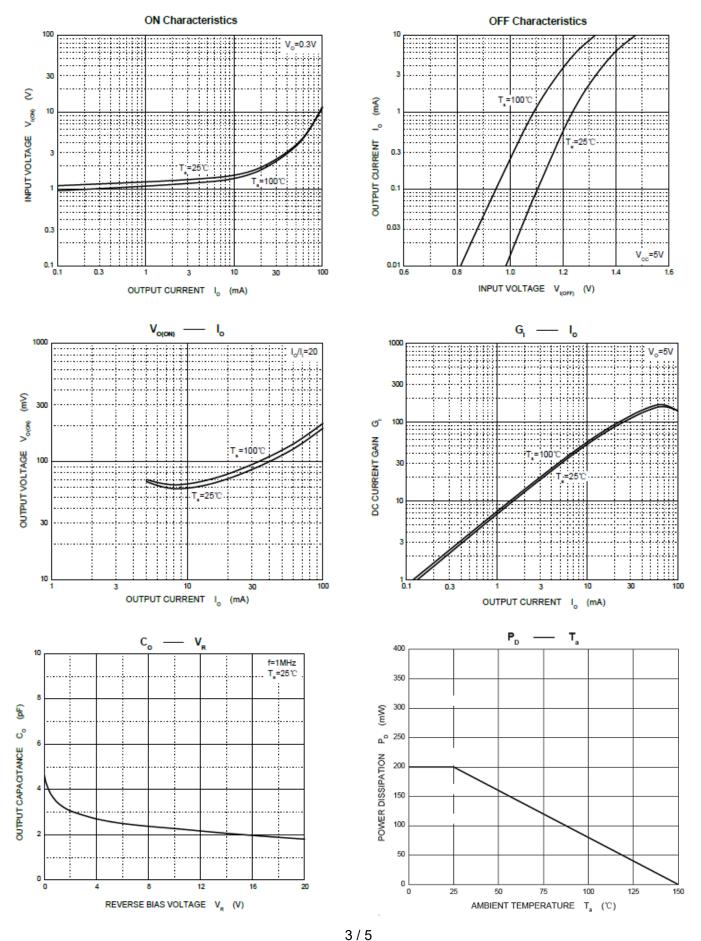
Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DTC143ECA	F2	Approximate 0.009	3000	30000	120000	7" reel

2/5

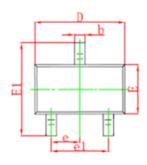
DTC143ECA

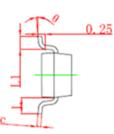
■ Characteristics (Typical)

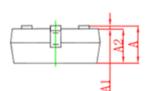


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■SOT-23 Package Outline Dimensions

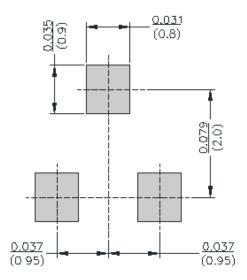






Symbol	Dimensions Ir	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
E	1.200	1. 400	0.047	0.055	
E1	2. 250	2.550	0.089	0.100	
e	0.95	OTYP	0. 037TYP		
el	1.800	2.000	0.071	0.079	
L	0.55	OREF	0.022REF		
LI	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

■SOT-23Suggested Pad Layout



4/5

DTC143ECA

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