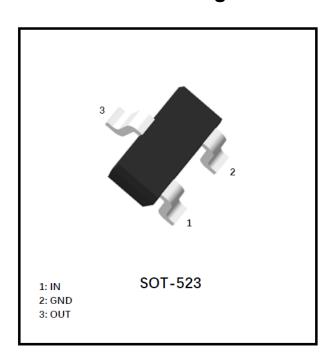




Digital Transistors (Built-in Resistors)



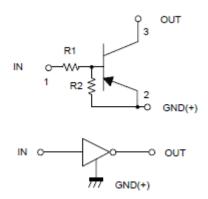
Features

- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- Halogen-free

Mechanical Data

- Package: SOT-523
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 54

■Equivalent circuit



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

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V _{CC}	V		-50
Input Voltage	V _{IN}	V		-40 to +6
Output Current	Io	mA		-100
Power Dissipation	P _D	mW		150
Junction Temperature	TJ	°C		150
Storage Temperature	T _{STG}	°C		-55 to +150



DTA114YE

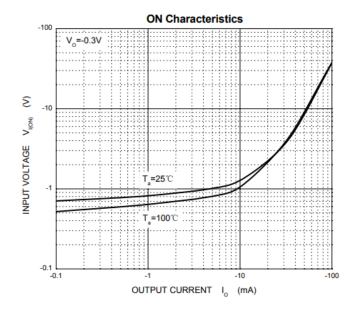
■Electrical Characteristics (Ta=25°C unless otherwise specified)

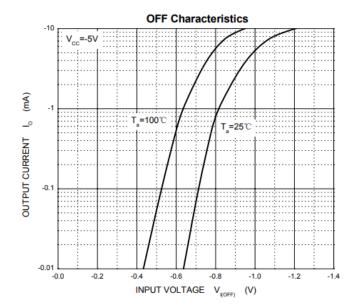
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	VI _(off)	V	V _{CC} =-5V,Io=-100uA	-0.3	-	-
Input voltage	VI _(on)	V	V ₀ =-0.3V,lo=-1mA	-	-	-1.4
Output voltage	Vo _(on)	V	lo /li =-5mA/-0.25 mA	-	-	-0.3
Input current	II	mA	VI=-5V	-	-	-0.88
Output current	I _{O(off)}	uA	V _{CC} =-50V, Vi=0	-	-	-0.5
DC current gain	Gı		Vo=-5V, Io =-5mA	68	-	-
Input resistance	R ₁	kΩ		7	10	13
Resistance ratio	R ₂ /R ₁			3.7	4.7	5.7
Transition frequency	f⊤	MHz	Vo=-10V,I _O =-5mA	-	250	-

■ Ordering Information (Example)

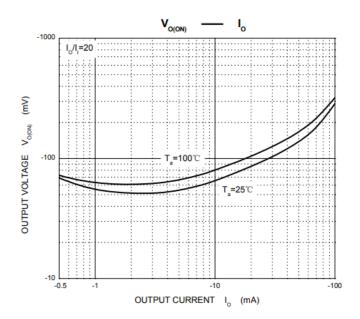
_			<u> </u>				
	Prefered P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
	DTA114YE	F2	Approximate 0.0027	3000	30000	120000	7" reel

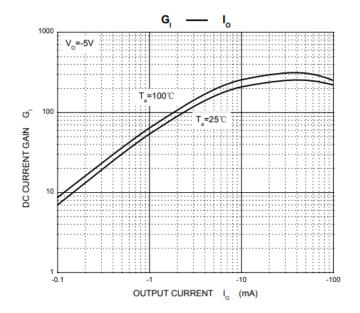
■ Characteristics (Typical)



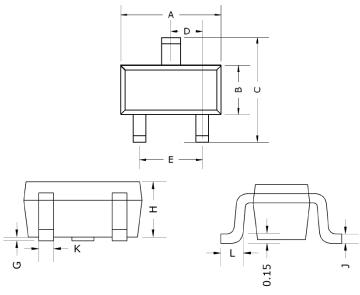








■ SOT-523 Package Outline Dimensions

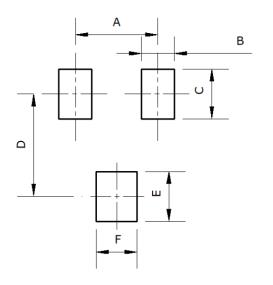


DIMENSIONS					
	INC	HES	MM		
DIM	MIN	MAX	MIN	MAX	
А	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.02	OTYP	0.50TYP		
Е	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
К	0.006	0.014	0.15	0.35	
L	0.010	0.018	0.26	0.46	





■ SOT-523 Suggested Pad Layout



DIMENSIONS				
DIM	MM (TYP)			
А	1.00			
В	0.40			
С	0.60			
D	1.24			
E	0.60			
F	0.50			



DTA114YE

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DTC114EUA-TP SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G DTC124ECA-TP DTA114ECA-TP DTC113EM3T5G
NSVMUN5135DW1T1G NSVMUN2237T1G NSVDTC143ZM3T5G SMUN5335DW1T2G SMUN5216DW1T1G NSVMUN5316DW1T1G
NSVMUN5215DW1T1G NSVMUN5213DW1T3G NSVIMD10AMT1G NSVEMC2DXV5T1G NSVDTC144WET1G NSVDTC123JET1G
NSVDTA143EM3T5G NSVB1706DMW5T1G NSBC143EDP6T5G NSBA144WDXV6T1G DTA115TET1G NSBC115TDP6T5G
NSBA113EF3T5G MUN2235T1G NSBC143ZDXV6T5G NSVDTA114EM3T5G MUN2138T1G DCX124EUQ-7-F MUN2141T1G
DTC144TET1G MUN2238T1G SMUN5112DW1T1G