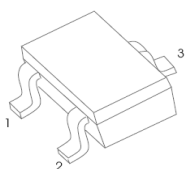
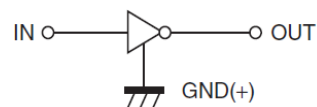
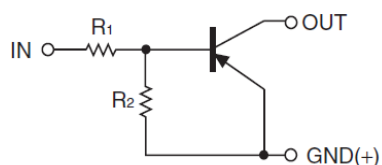


DIGITAL TRANSISTOR (PNP)

SOT-523



MARKING: 01

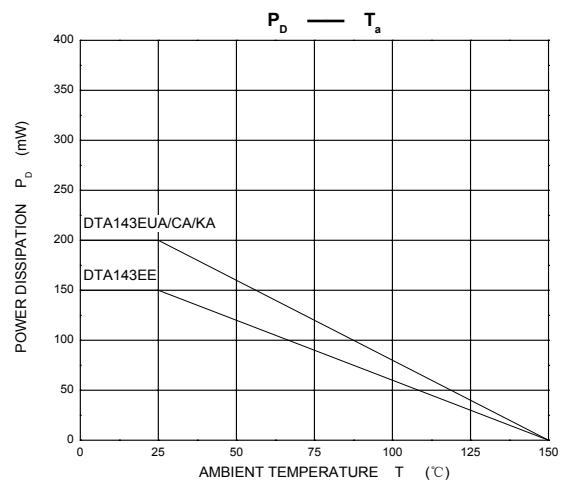
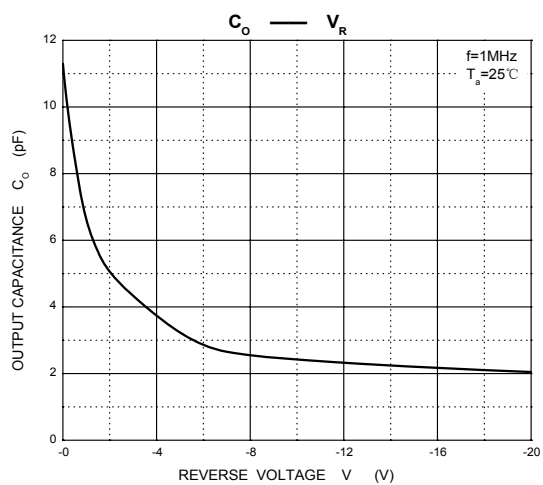
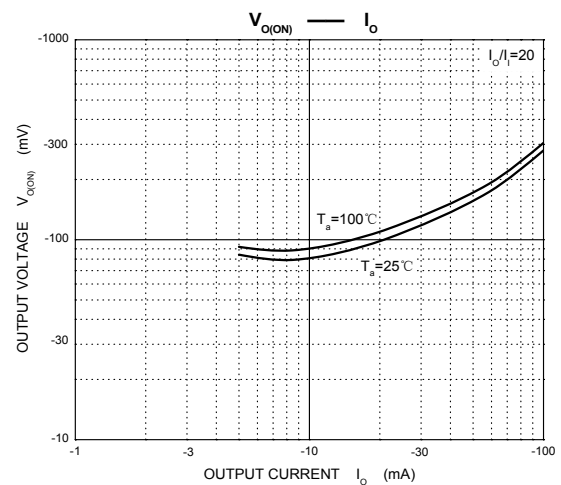
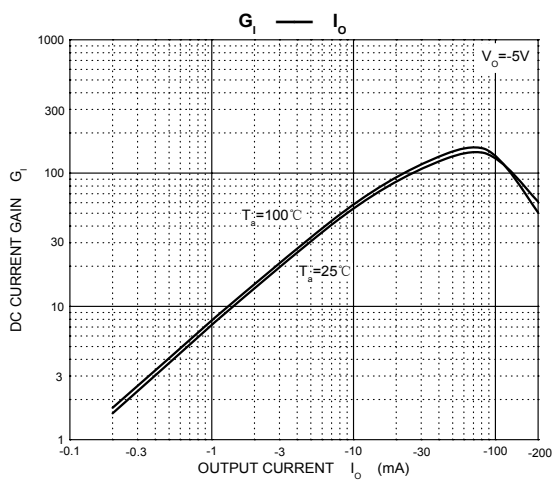
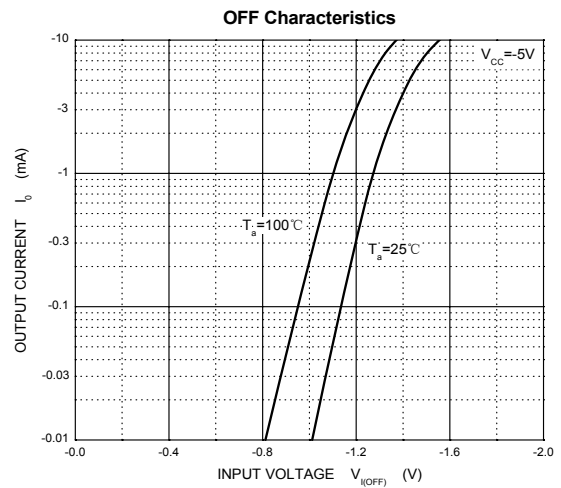
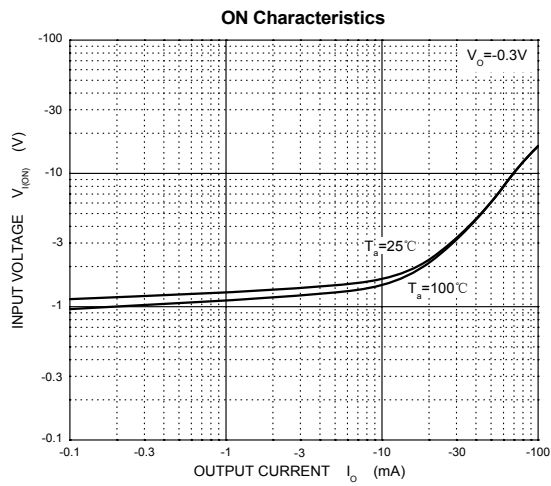

Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

Symbol	Parameter	Limits(DTA143E□)				Unit
		E	UA	KA	CA	
V_{CC}	Supply Voltage	-50				V
V_{IN}	Input Voltage	-30~+10				V
I_O	Output Current	-100				mA
P_D	Power Dissipation	150	200	200	200	mW
T_j	Junction Temperature	150				$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150				$^{\circ}\text{C}$

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Input voltage	$V_{I(off)}$	$V_{CC}=-5V, I_O=-100\mu A$	-0.5			V
	$V_{I(on)}$	$V_O=-0.3V, I_O=-20\text{ mA}$			-3	V
Output voltage	$V_{O(on)}$	$I_O/I_I=-10\text{mA}/-0.5\text{mA}$			-0.3	V
Input current	I_I	$V_I=-5V$			-1.8	mA
Output current	$I_{O(off)}$	$V_{CC}=-50V, V_I=0$			-0.5	μA
DC current gain	G_I	$V_O=-5V, I_O=-10\text{mA}$	30			
Input resistance	R_1		3.29	4.7	6.11	k Ω
Resistance ratio	R_2/R_1		0.8	1	1.2	
Transition frequency	f_T	$V_O=-10V, I_O=-5\text{mA}, f=100\text{MHz}$		250		MHz

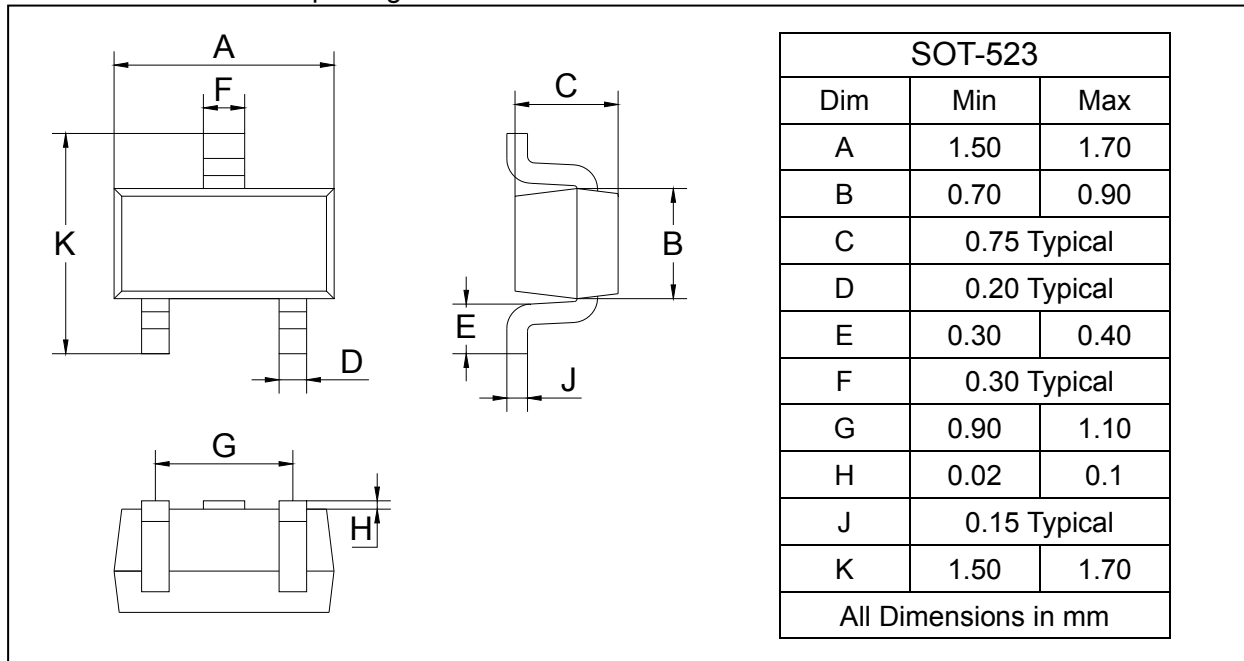
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package

SOT-523



SOLDERING FOOTPRINT

