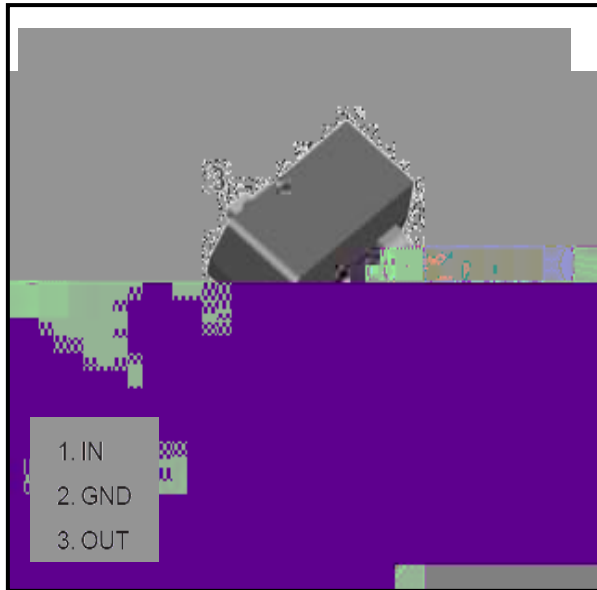


Digital Transistors (Built-in Resistors)



Features

- Epoxy meets UL-94 V-0 flammability rating
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- Surface mount package ideally Suited for Automatic

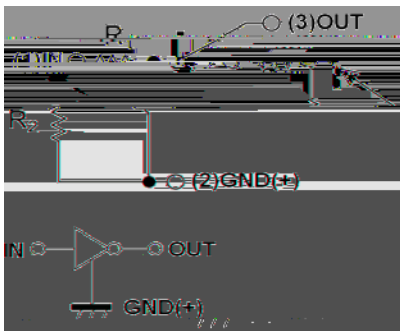
Insertion

- PNP

J-STD-002 and JESD22-B102

E13

■Equivalent circuit



■Maximum Ratings (Ta=25 Unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V_{CC}	V		-50
Input Voltage	V_{IN}	V		-30 to +5
Output Current	I_O	mA		-100
Power Dissipation	P_D	mW		200
Junction Temperature	T_J			150
Storage Temperature	T_{STG}			-55 to +150



DTA143ZCA

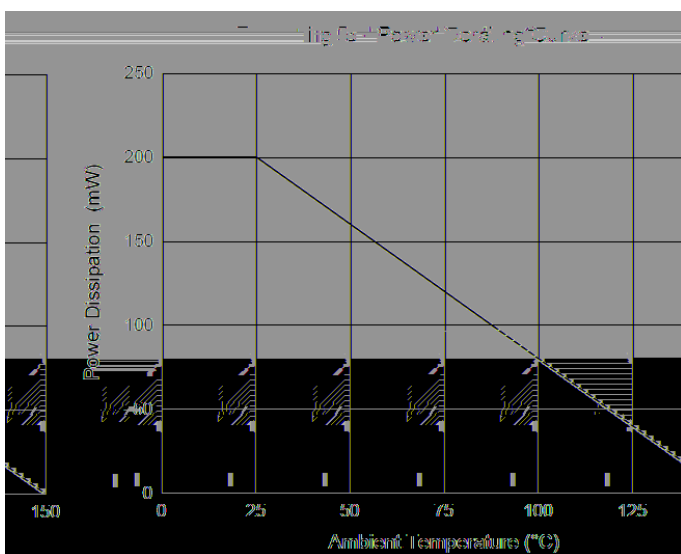
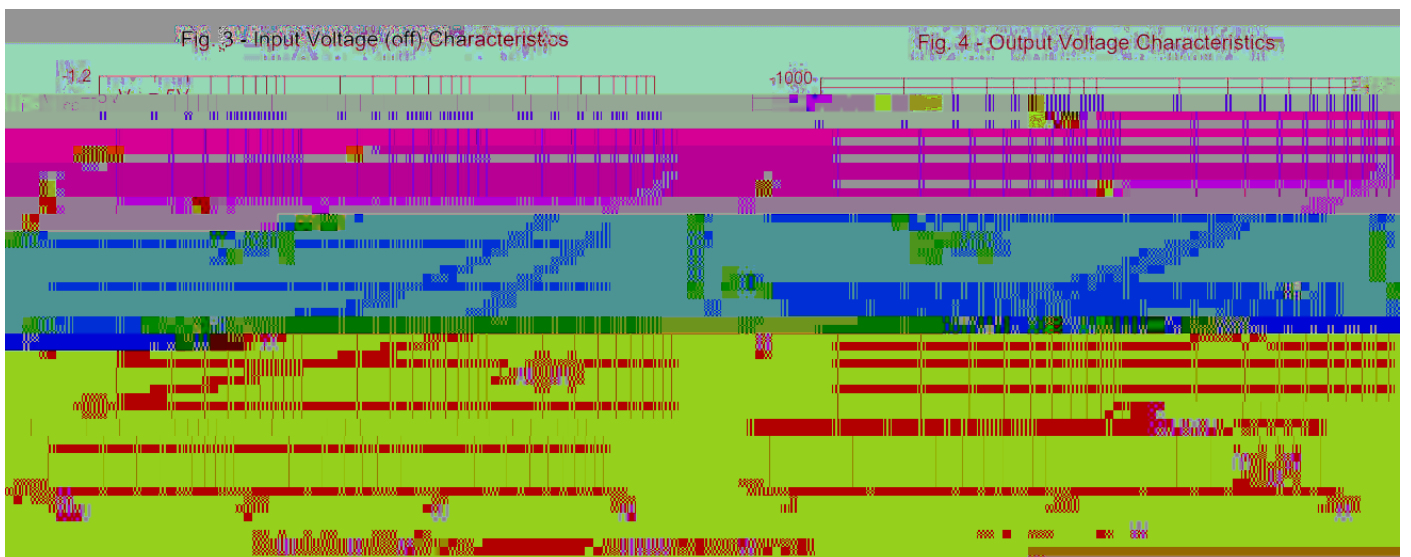
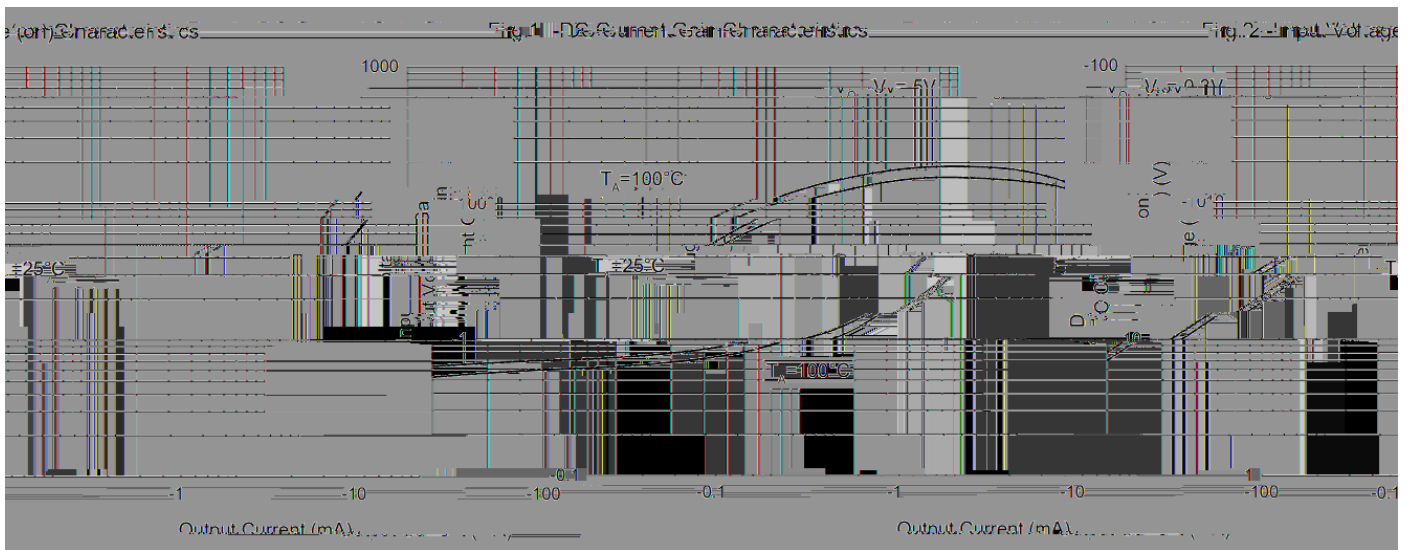
■ Electrical Characteristics (Ta=25 unless otherwise specified)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	
Input voltage	$V_{I(off)}$	V	$V_{CC}=-5V, I_c=-100\mu A$	-0.5		
	$V_{I(on)}$	V	$V_o=-0.3V, I_c=-2mA$			-1.3
Output voltage	$V_{O(on)}$	V	$I_o / I_i = -10mA / -0.5 mA$			-0.3
Input current	I_I	mA	$V_i=-5V$			-1.8
Output current	$I_{O(off)}$	μA	$V_{CC}=-50V, V_i=0$			-0.5
DC current gain	G_I		$V_o=-5V, I_o = -10mA$	80		
Input resistance	R_1	$k\Omega$		3.29	4.7	6.11
Resistance ratio	R_2/R_1			8	10	12
Transition frequency	f_T	MHz	$V_{CE}=-10V, I_E=5mA, f=100MHz$		250	

■ Ordering Information (Example)

PREFERRED P/N

■ Characteristics (Typical)





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