



Digital Transistors (Built-in Resistors)

Features w)

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UMD18N

Maximum Ratings (Ta=25 Unless otherwise specified)

DTR1-NPN

	SYMBOL		CONDITI 1	LUê M	VALUE
Supply Voltage	V _{CC}	V			50
Input Voltage	V _{IN}	V			-7 to +20
Output Current	I _o	mA			100
Power Dissipation	P _D	mW			150
Junction Temperature - Single	T _j	A J	9		150 Y
Storage Temperature	T _{STG}				-55 to +150

DTR2-PNP

ITEM



UMD18N

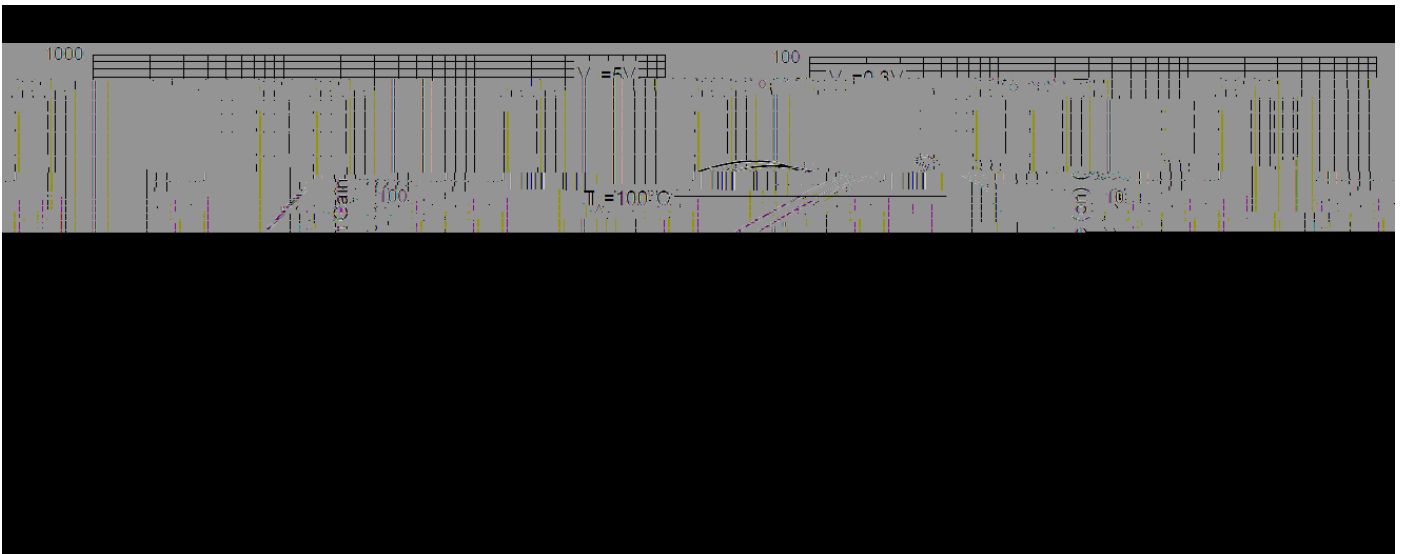
DTR2-PNP

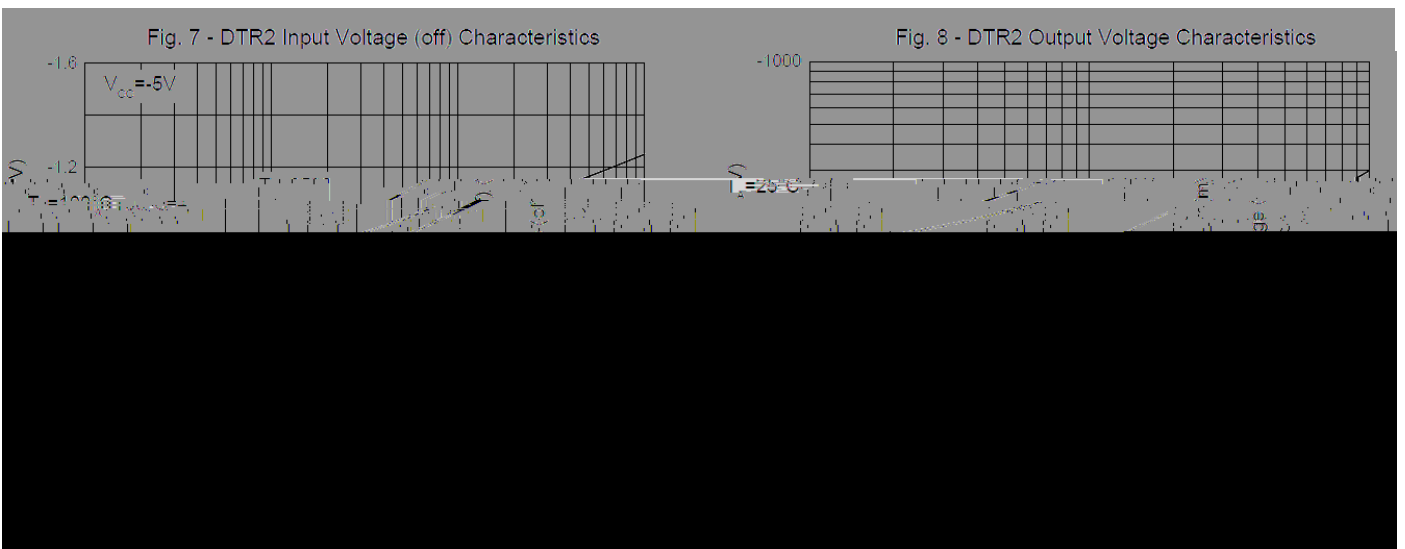
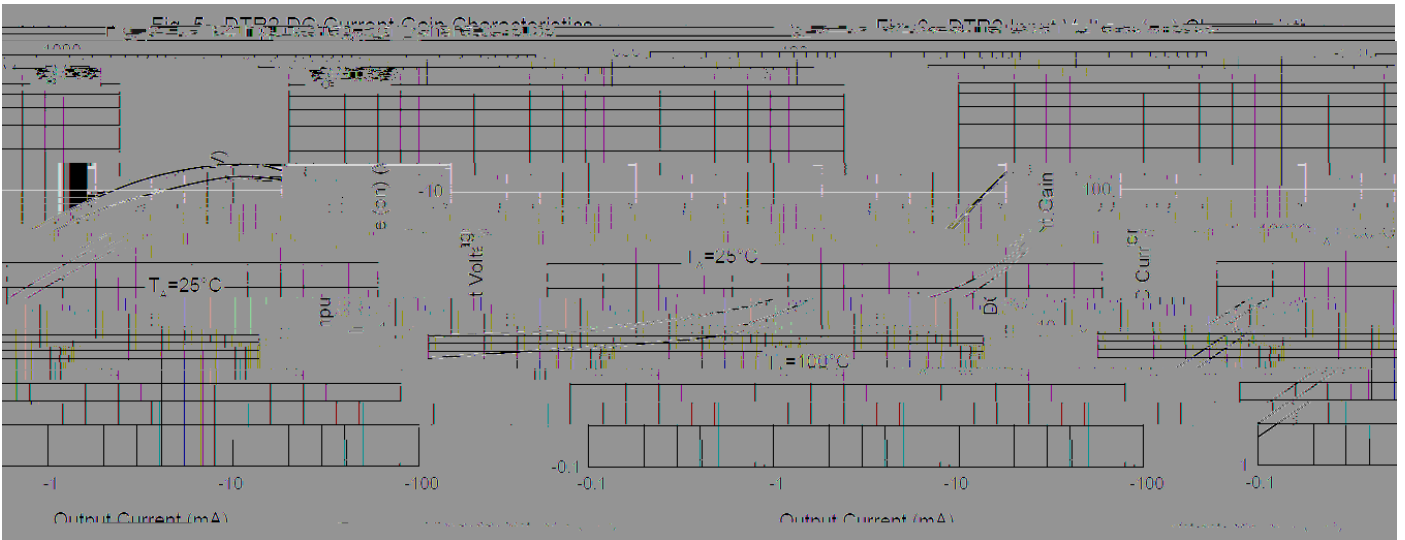
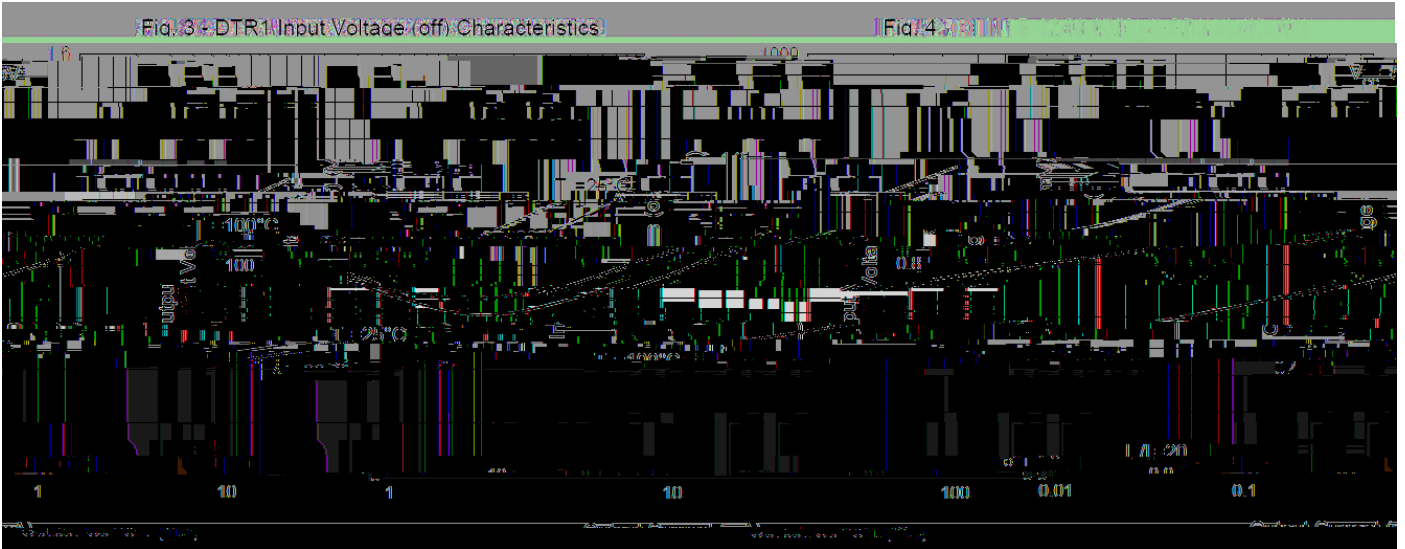
ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	$V_{I(off)}$	V	$V_{CC}=-5V, I_c=-100\mu A$	-0.3		
	$V_{I(on)}$	V	$V_O=-0.3V, I_c=-20mA$			-2.5
Output voltage	$V_{O(on)}$	V	$I_o / I_i = -10mA / -0.5mA$			-0.3
Input current	I_i	mA	$V_i = -5V$			-1.8
Output current	$I_{O(off)}$	μA	$V_{CC} = -50V, V_i = 0$			-0.5
DC current gain	G_i		$V_o = -5V, I_o = -10mA$	30		
Input resistance	R_i	k		3.29	4.7	6.11
Resistance ratio	R_2/R_1			1.7	2.1	2.6
Transition frequency	f_T	MHz	$V_{CE} = -10V, I_E = -5mA, f = 100MHz$		250	

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
UMD18N	F2	Approximate 0.009g	3000	30000	120000	7" reel

Characteristics (Typical)







Disclaimer

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