



UMD3N

Maximum Ratings (Ta=25 Unless otherwise specified)

DTR1-NPN

ITEM	SYMBOL	UNIT	CONDITIONS	VALUE
Supply Voltage	V _{CC}	V		50
Input Voltage	V _{IN}	V		-10 to +40
Output Current	I _o	mA		100
Power Dissipation	P _D	mW		150
Junction Temperature Single	T _j			150
Storage Temperature	T _{STG}			-55 to +150

DTR2-PNP



UMD3N

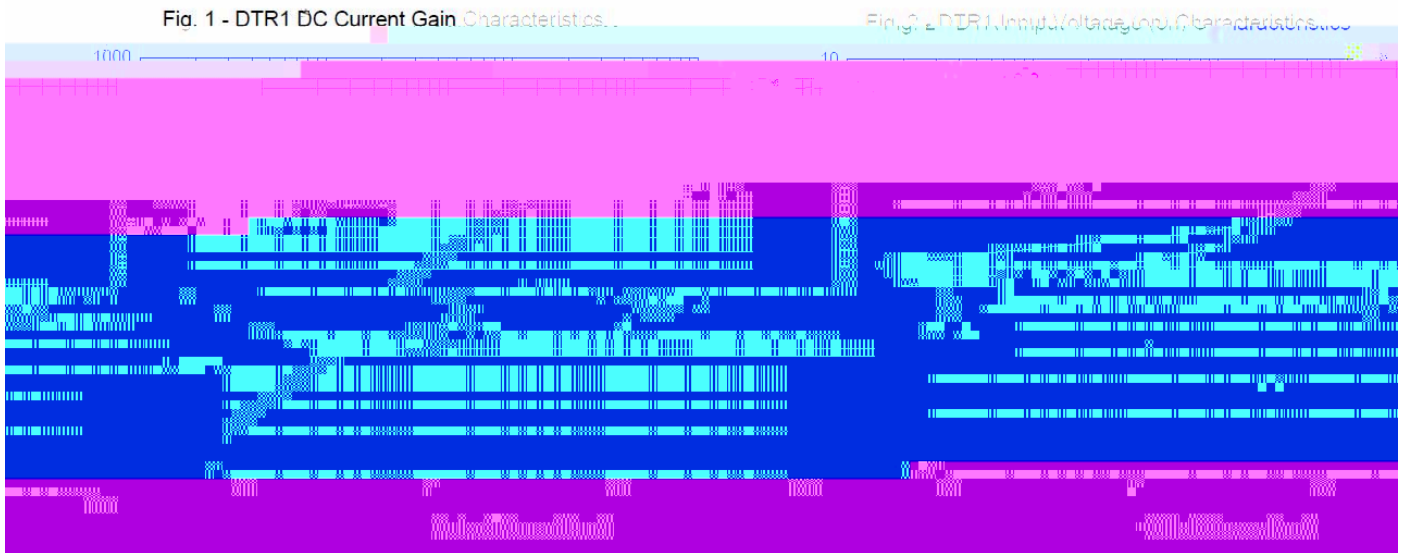
DTR2-PNP

ITEM	SYMBOL	UNIT	CONDITIONS	MIN	TYP	MAX
Input voltage	$V_{I(off)}$	V	$V_{CC}=-5V, I_c=-100\mu A$	-0.5	-	-
	$V_{I(on)}$	V	$V_O=-0.3V, I_c=-10mA$	-	-	-3
Output voltage	$V_{O(on)}$	V	$I_o / I_i = -10mA / -0.5 mA$	-	-	-0.3
Input current	I_i	mA	$V_i=-5V$	-	-	-0.88
Output current	$I_{O(off)}$	μA	$V_{CC}=-50V, V_i=0$	-	-	-0.5
DC current gain	G_i		$V_o=-5V, I_o = -5mA$	30	-	-
Input resistance	R_i	k		7	10	13
Resistance ratio	R_2/R_1			0.8	1	1.2
Transition frequency	f_T	MHz	$V_{CE}=-10V, I_E=-5mA, f=100MHz$	-	250	-

Ordering Information (Example)

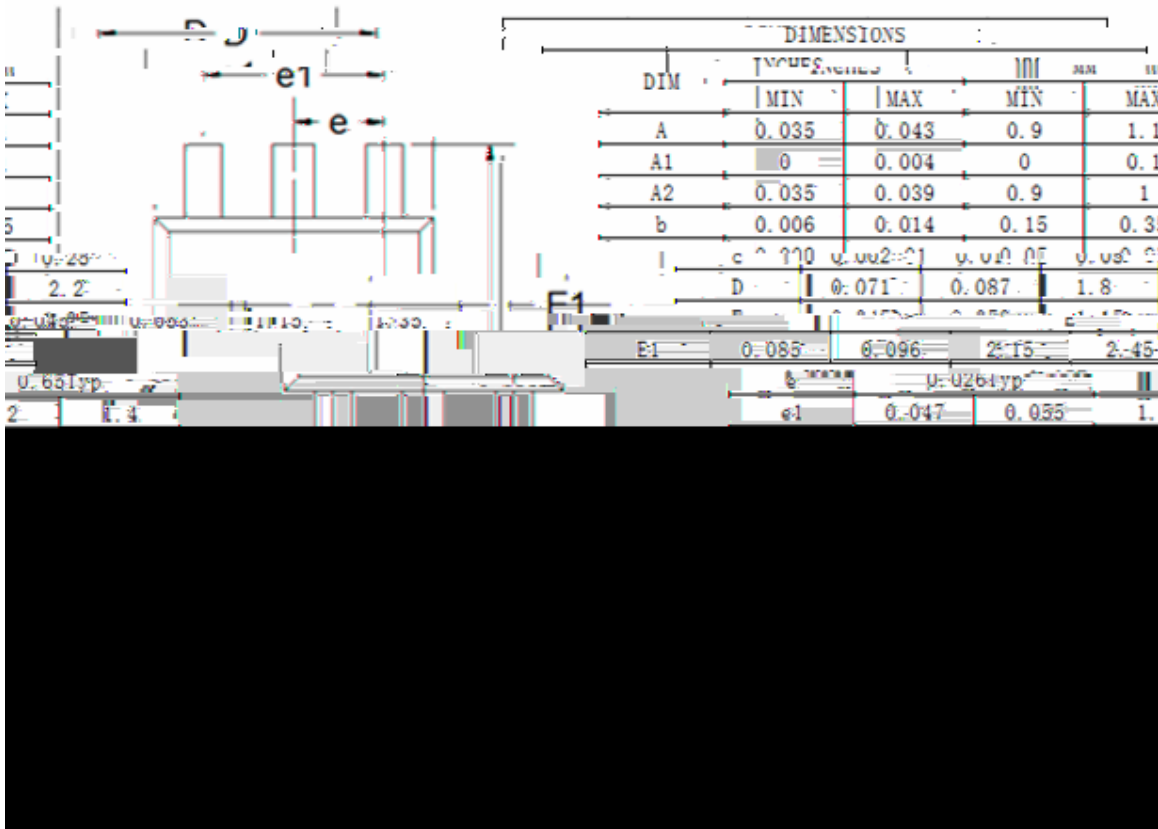
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
UMD3N	F2	Approximate 0.009g	3000	30000	120000	7" reel

Characteristics (Typical)



UMD3N

SOT-363 Package Outline Dimensions



SOT-363 Suggested Pad Layout



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