





# UMD3N

Maximum Ratings (Ta=25 Unless otherwise specified)

DTR1-NPN

	SYMBOL	UNIT		
Supply Voltage	V <sub>CC</sub>	V		50
Input Voltage	V <sub>IN</sub>	V		-10 to +40
Output Current	I <sub>o</sub>	mA		100
Power Dissipation	P <sub>D</sub>	mW		150
Function Temperature Single	T <sub>j</sub>			150
				-55 to +150



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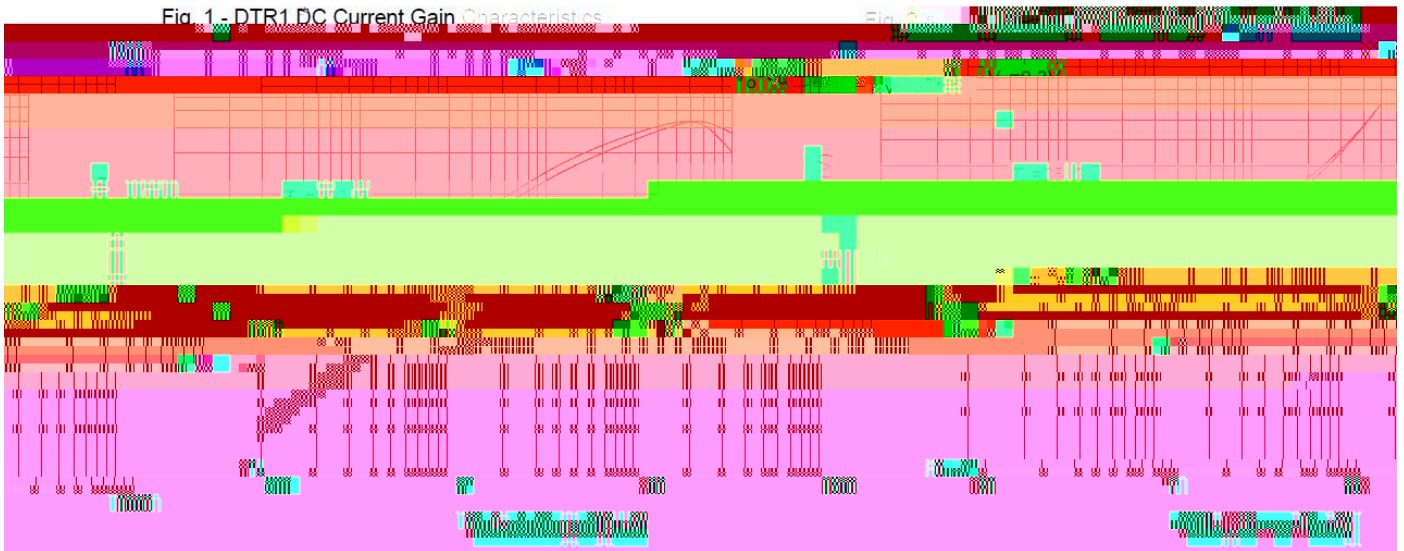
## DTR2-PNP

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	$I_{O(off)}$	$\mu A$	$V_{CC}=-50V, V_i=0$	-	-	-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)

PREFERRED 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

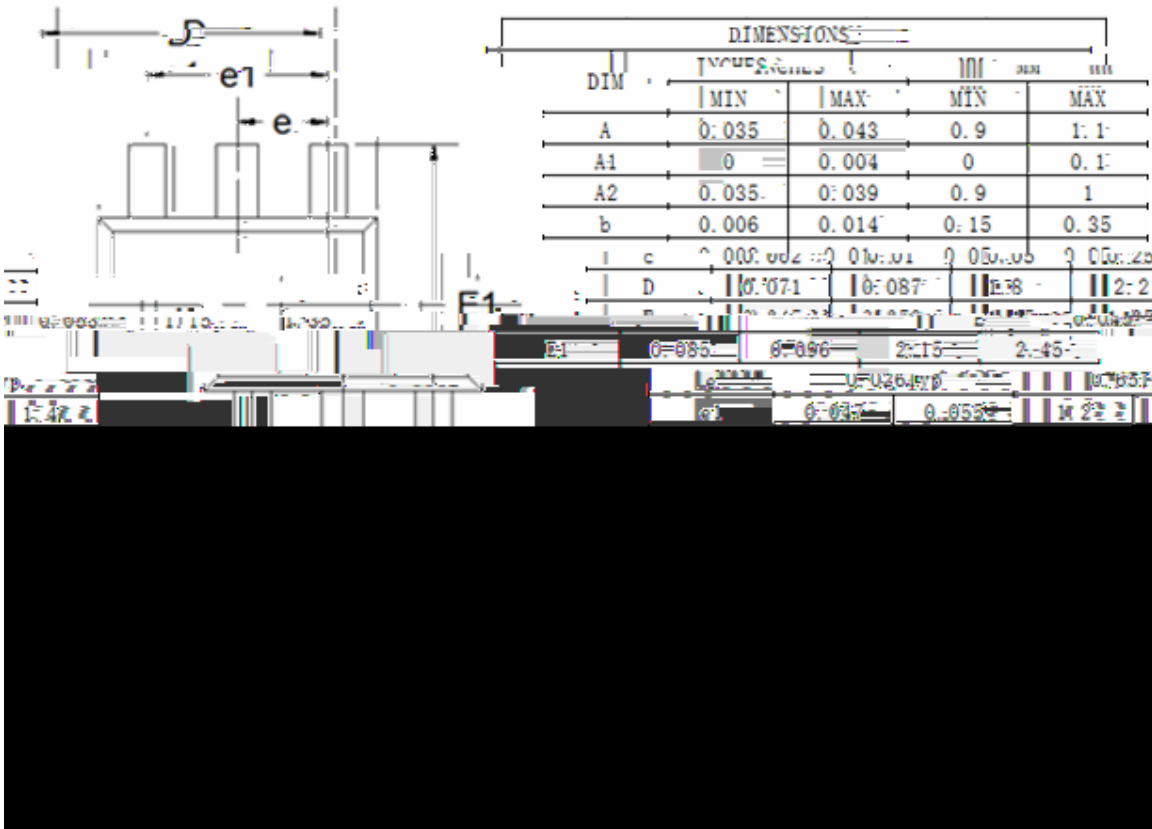
### Characteristics (Typical)





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## SOT-363 Package Outline Dimensions



## SOT-363 Suggested Pad Layout

Unit mm



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