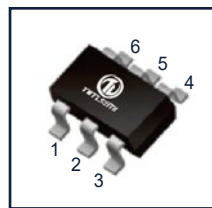
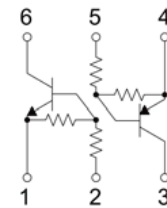


Features

- DTA114Y and DTC114Y transistors are built-in a package



SOT-363



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _{CC}	Supply voltage	50	V
V _{IN}	Input voltage	-6~40	V
I _O	Output current	70	mA
I _{C(MAX)}		100	
P _d	Power dissipation	150(TOTAL)	mW
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

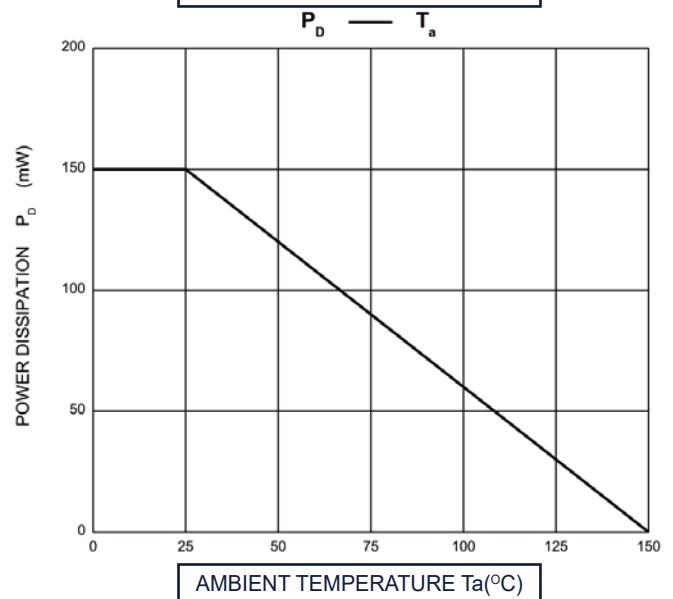
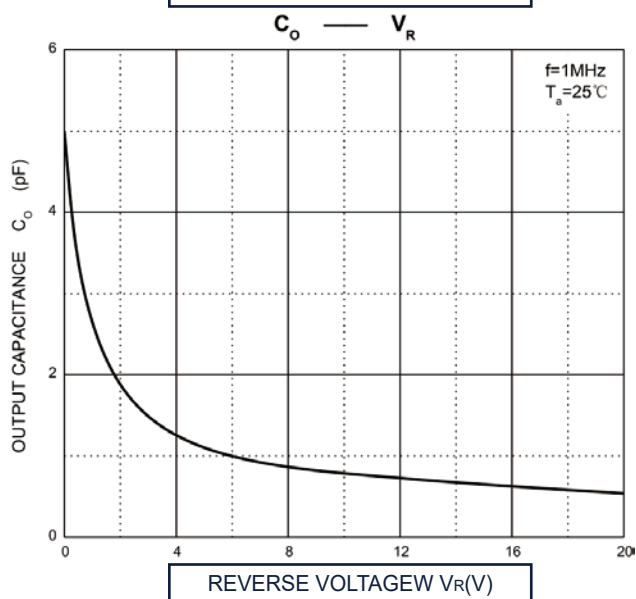
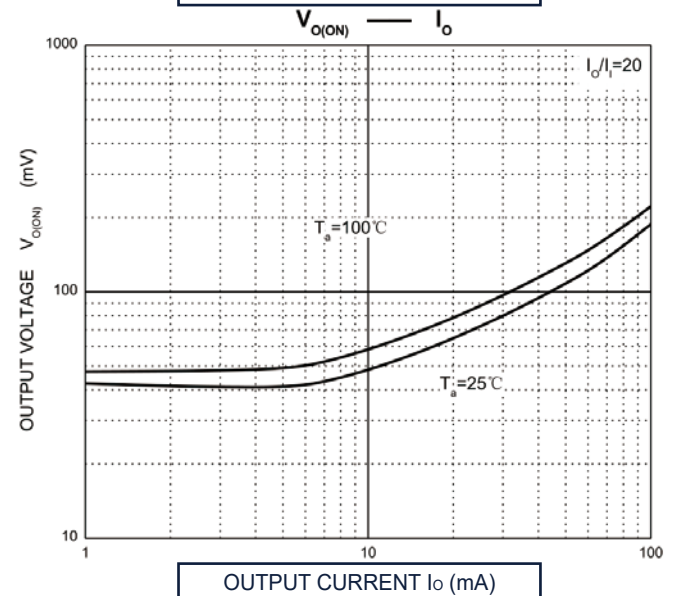
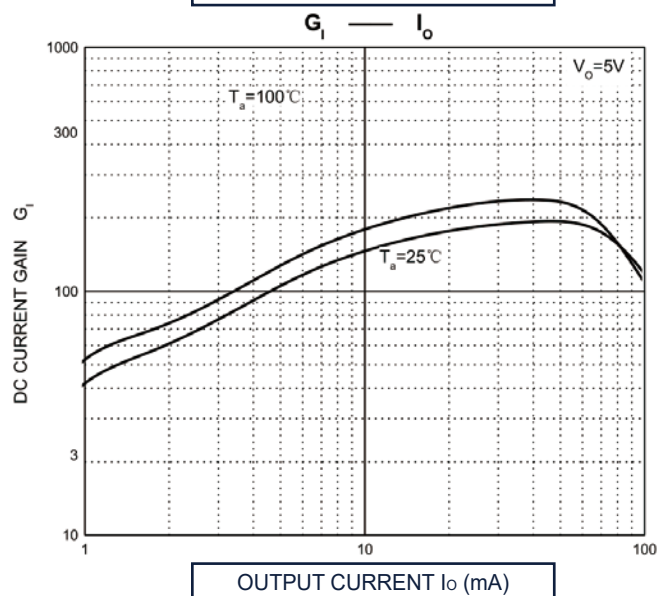
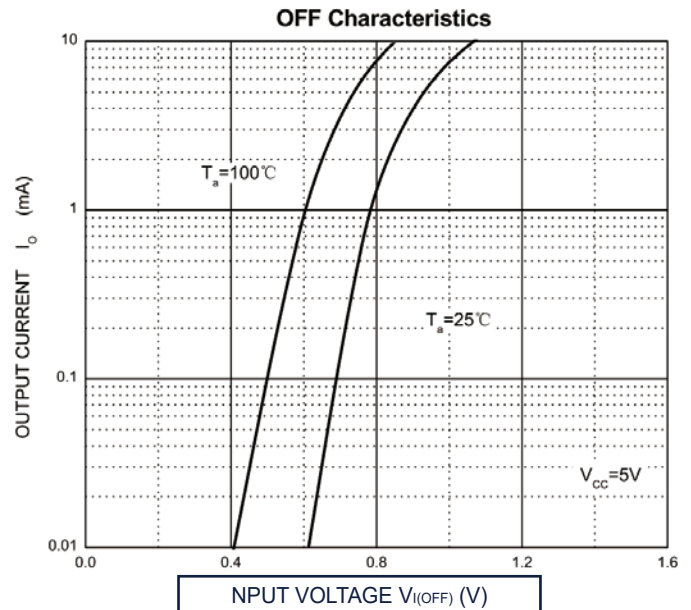
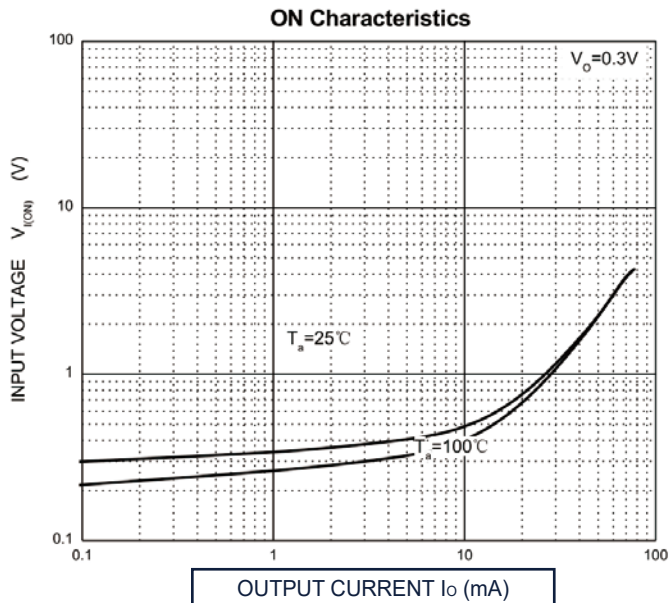
Electrical Characteristics (T_A=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{I(off)}	Input voltage	V _{CC} =5V, I _O =100μA	0.3			V
V _{I(on)}		V _O =0.3V, I _O =1mA			1.4	
V _{O(on)}	Output voltage	I _O /I _I =5mA/0.25mA			0.3	V
I _I	Input current	V _I =5V			0.88	mA
I _{O(off)}	Output current	V _{CC} =50V, V _I =0			0.5	μA
G _I	DC current gain	V _O =5V, I _O =5mA	68			
R ₁	Input resistance		7	10	13	KΩ
R ₂ /R ₁	Resistance ratio		3.7	4.7	5.7	
f _T	Transition frequency	V _{CE} =10V, I _E =-5mA, f=100MHz		250		MHz

Ordering information

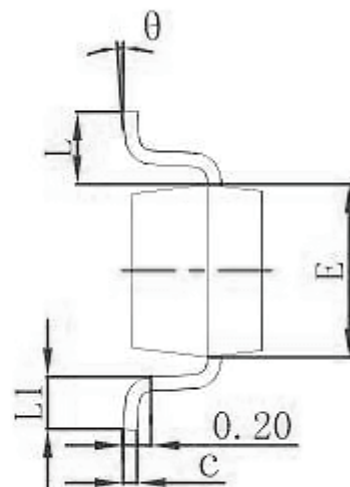
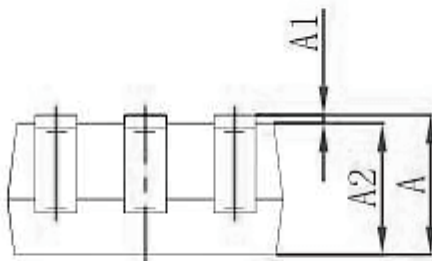
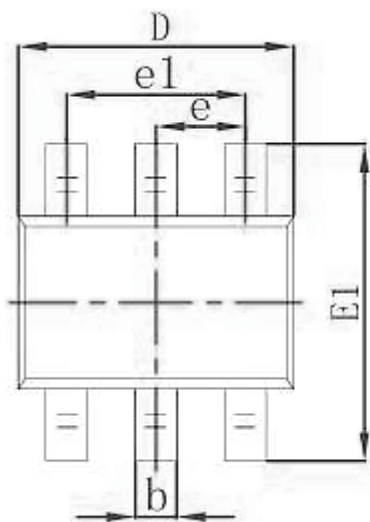
Product ID	Pack	Naming rule	Marking	Qty(PCS)
UMD9N	SOT-363	UMD9N 产品名称 product name	D9	3000

Typical Characteristics





SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°