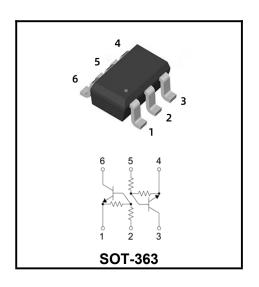


Dual Digital Transistors (NPN+NPN)

Features

- Two DTC144E chips in a package
- Mounting possible with SOT-363 automatic mounting machines
- Transistor elements are independent, eliminating interference
- Mouting cost and area be cut in half

Marking Code		
UMH2N	H2	



Absolute Maximum Ratings (Ta=25℃)

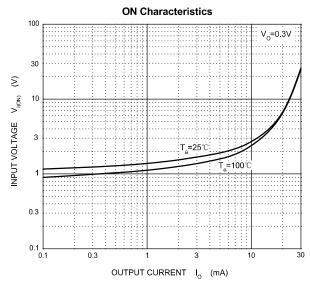
Symbol	Parameter	Value	Units	
V _{CC}	Supply Voltage	50		
Vi	Input voltage	-10 to +40	V	
I _{C(MAX)}	Output current	100	mA	
P _D	Power dissipation	150	mW	
TJ	T _J Junction temperature		$^{\circ}$	
T _{stg}	Storage temperature	-55~+150	°C	

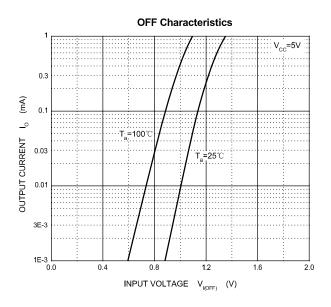
Electrical Characteristics (Ta=25℃ unless otherwise specified.)

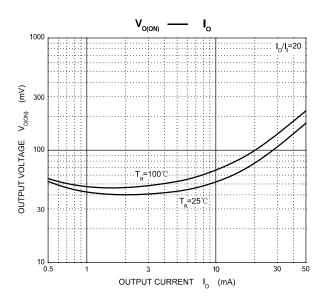
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Input turn-on voltage	V _{i(on)}	V _{CC} =0.3V, I _O =2mA			3	V
Input cut-off voltage	$V_{i(off)}$	V _{CC} =5V, I _O =100μA	0.5			V
Output voltage	V _{o(on)}	I _O =10mA, I _i =0.5mA			0.3	V
Input cut-off current	li	V _i =5V			0.18	mA
Output cut-off current	I _{O(off)}	V _{CC} =50V, V _i =0			0.5	μA
DC current gain	Gi	V _O =5V, I _O =5mA	68			
Transition frequency	f _T	V _O =10V, I _O =5mA, f =100MHz		250		MHz
Input resistance	R ₁		32.9		61.1	ΚΩ
Resistance ratio	R ₂ /R ₁		0.8		1.2	

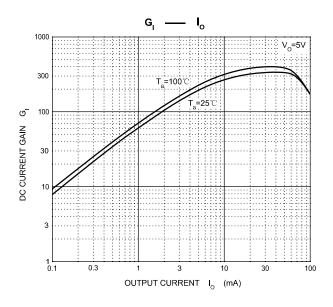


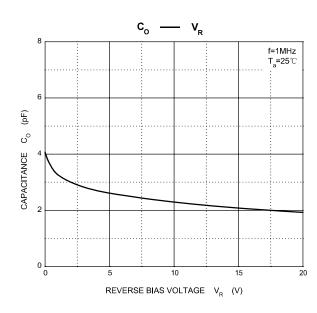
Typical Characteristics

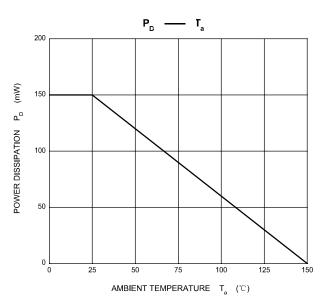












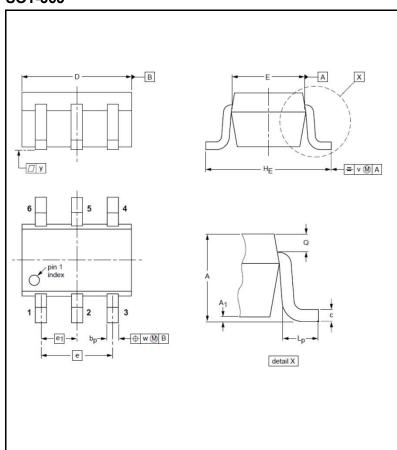


Ordering information

Package	Packing Description	Packing Quantity
SOT-363 Tape/Reel,7"reel		3000PCS/Reel 120000PCS/Carton

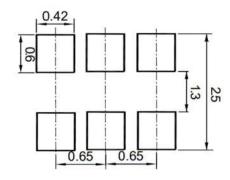
Package Dimensions

SOT-363



Dim	Millimeter(mm)		mil		
Dim.	Min.	Max.	Min.	Max.	
Α	0.8	1.1	32	43	
A1	-	0.1	-	3.94	
bp	0.20	0.30	7.87	11.81	
С	0.10	0.25	3.94	9.84	
D	1.8	2.2	70.87	86.61	
E	1.15	1.35	45.28	53.15	
e	1	1.3		51.18	
e1	0.65		25	5.6	
HE	2.0	2.2	78.74	86.6	
Lp	0.15	0.45	5.90	17.71	
Q	0.15	0.25	5.90	9.84	
٧	0.2		7.	78	
W	0	0.2		7.78	
у	0.1		3.	94	

The recommended mounting pad size





Disclaimer

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