

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Two DTC114E chips in a package
- Transistor elements are independent, eliminating Interference
- Mounting cost and area be cut in half

MARKING

H11

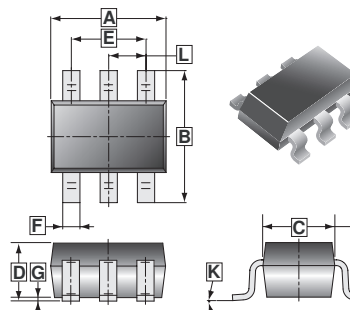
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-363	3K	7 inch

ORDER INFORMATION

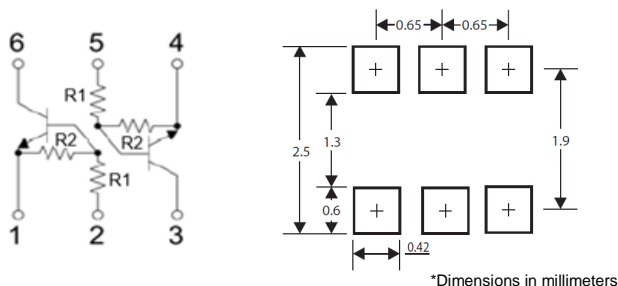
Part Number	Type
UMH11N-C	Lead (Pb)-free and Halogen-free

SOT-363



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.10	REF.
B	1.80	2.45	H	0.525	REF.
C	1.15	1.35	J	0.05	0.25
D	0.70	1.10	K	8°	
E	1.30	REF.	L	0.65 TYP.	
F	0.10	0.35			

Mounting Pad Layout



*Dimensions in millimeters

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

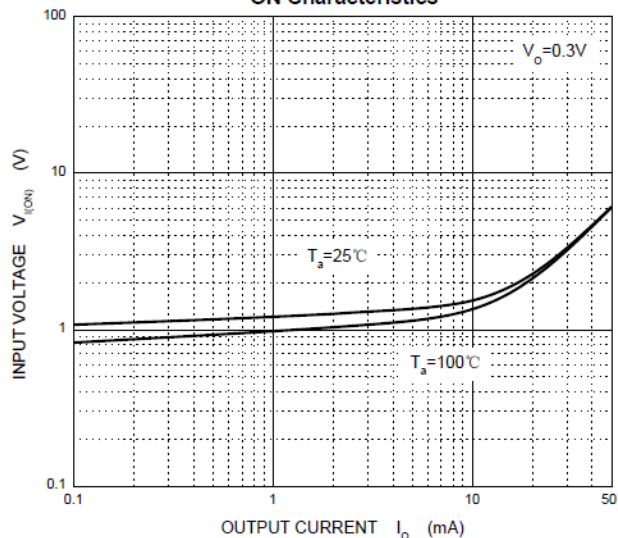
Parameter	Symbol	Value	Unit
Supply Voltage	V_{CC}	50	V
Input Voltage	V_{IN}	-10~40	
Output Current	I_O	50	mA
	I_C	100	
Power Dissipation	P_D	150	mW
Junction & Storage Temperature Range	T_J, T_{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

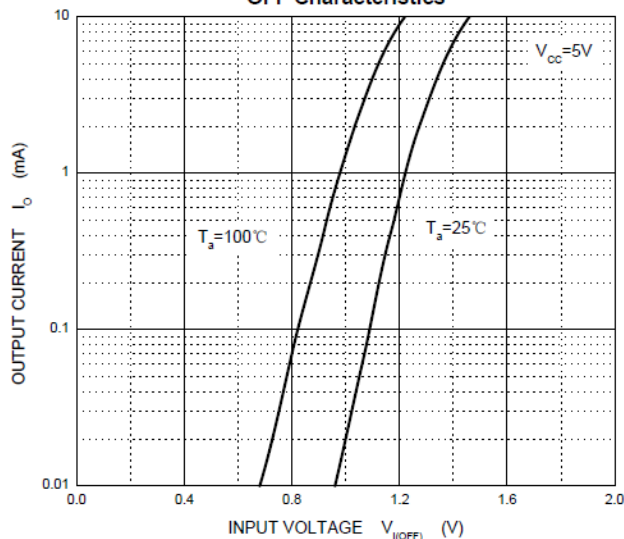
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Input Voltage	$V_{I(off)}$	0.5	-	-	V	$V_{CC}=5V, I_O=100\mu A$ $V_O=0.3V, I_O=10mA$
	$V_{I(on)}$	-	-	3		
Output Voltage	$V_{O(on)}$	-	0.1	0.3		$I_O/I_I=10mA/0.5mA$
Input Current	I_I	-	-	0.88	mA	$V_I=5V$
Output Current	$I_{O(off)}$	-	-	0.5	μA	$V_{CC}=50V, V_I=0$
DC Current Gain	G_I	30	-	-	V	$V_O=5V, I_O=5mA$
Input Resistance	R_1	7	10	13	k Ω	
Resistance Ratio	R_2/R_1	0.8	1	1.2		
Transition Frequency	f_T	-	250	-	MHz	$V_{CE}=10V, I_E=5mA, f=100MHz$

CHARACTERISTICS CURVE

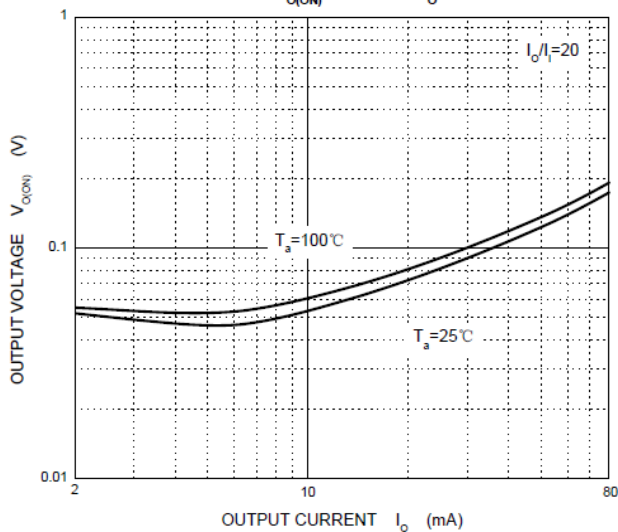
ON Characteristics



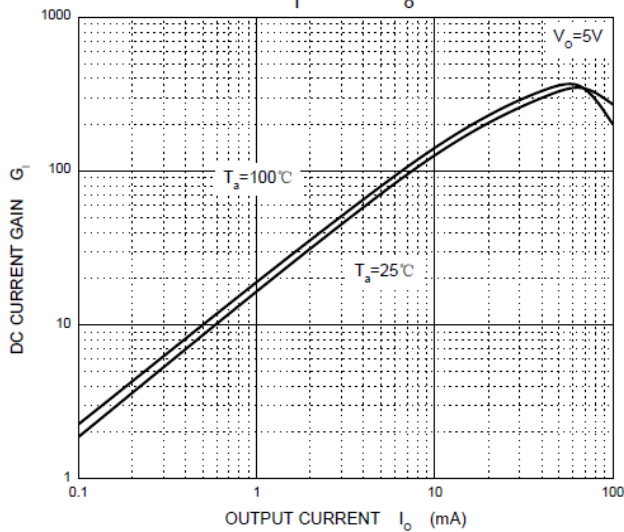
OFF Characteristics



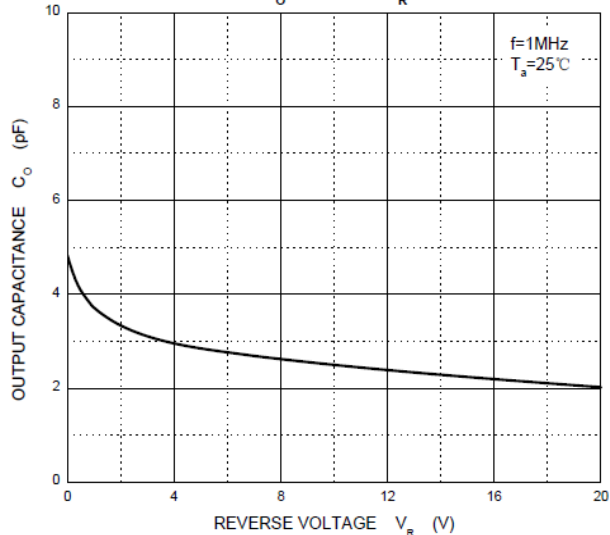
$V_{O(ON)}$ — I_O



G_I — I_O



C_O — V_R



P_D — T_a

