Elektronische Bauelemente

EMG11

Dual N-Ch Digital Transistors (Built-in Resistors)

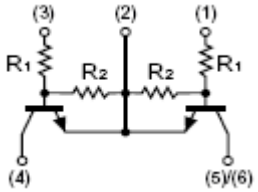
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

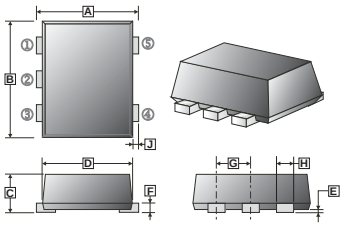
FEATURES

- Two DTC123JCA chips in a package

SOT-553

EQUIVALENT CIRCUIT





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.70	F	0.09	0.16
B	1.50	1.70	G	0.45	0.55
C	0.525	0.60	H	0.17	0.27
D	1.10	1.30	J	0.10	0.30
E	-	0.05			

MARKING：G11

ABSOLUTE MAXIMUM RATINGS at Ta = 25°C

Parameter	Symbol	Value	Unit
Supply voltage	V_{CC}	50	V
Input voltage	V_{IN}	-5 ~ 12	V
Output current	I_O	100	mA
Power dissipation	P_D	150	mW
Junction & Storage temperature	T_J, T_{STG}	150, -55 ~ 150	℃

ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Input turn-on voltage	$V_{I(ON)}$	1.1	-	-	V	V_{CC}= 0.3V, I_O= 5mA
Input cut-off voltage	$V_{I(OFF)}$	-	-	0.5		V_{CC}= 5V, I_O= 100μA
Output voltage	$V_{O(ON)}$	-	-	0.3	V	I_O=5mA, I_I=0.25mA
Input cut-off current	I_I	-	-	3.6	mA	V_I= 5V
Output cut-off current	$I_{O(OFF)}$	-	-	0.5	μA	V_{CC}= 50V, V_I= 0
DC current gain	G_I	80	-	-		V_O= 5V, I_O= 10mA
Input resistance	R_1	-	2.2	-	KΩ	
Resistance ratio	R_2 / R_1	17	-	26		
Transition frequency	f_T	-	250	-	MHz	V_{CE}= 10V, I_c= 5mA, f=100MHz