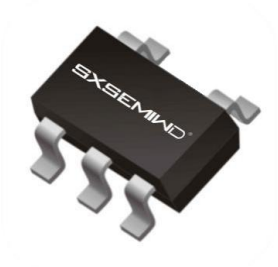
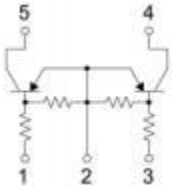
FEATURES

Two DTA123J chips in a package

SOT-353





Marking: A5

Absolute maximum ratings (T_a=25℃)

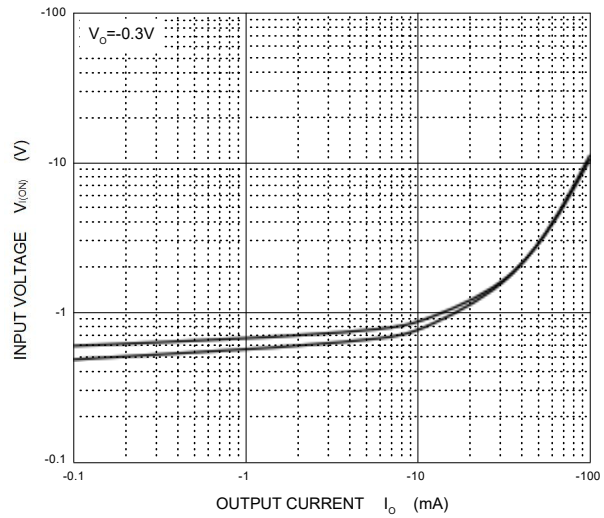
Symbol	Parameter	Value	Units
V_{CC}	Supply Voltage	-50	V
$I_{C(MAX)}$	Output Current	-100	mA
V_i	Input Voltage	-12 to +5	V
P_D	Power Dissipation	150	mW
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

Electrical Characteristics (T_a=25℃)

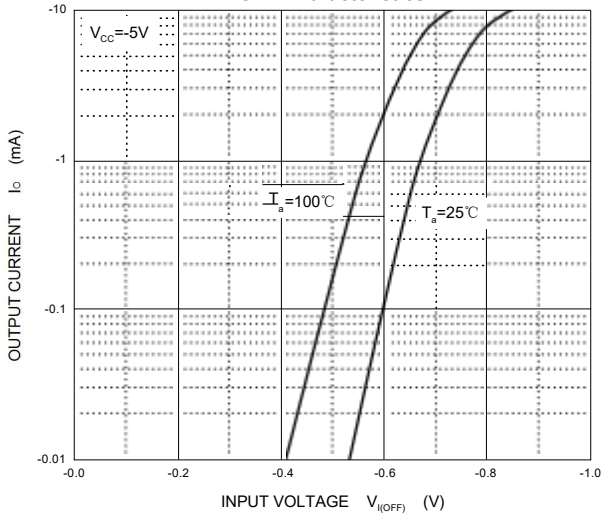
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input turn-on voltage	$V_{i(on)}$	V_O=-0.3V, I_O=-5mA			-1.1	V
Input cut-off voltage	$V_{i(off)}$	V_{CC}=-5V, I_O=-100μA	-0.5			V
Output voltage	$V_{O(on)}$	I_O=-5mA, I_i=-0.25 mA			-0.3	V
Input cut-off current	I_i	V_i =-5V			-3.6	mA
Output cut-off current	$I_{O(off)}$	V_{CC}=-50V, V_i=0			-0.5	μA
DC current gain	G_i	V_O =-5V, I_O=-10mA	80			
Transition frequency	f_T	V_O =-10V, I_O=-5mA, f =100MHz		250		MHz
Input resistance	R_1		1.54		2.86	KΩ
Resistance ratio	R_2/R_1		17		26	

Typical Characteristics

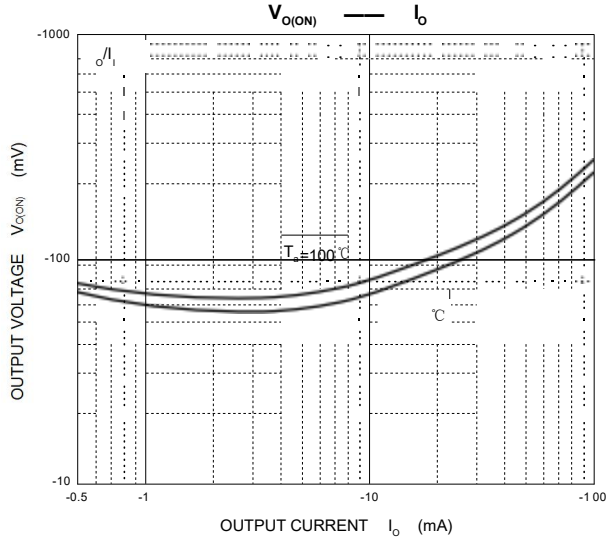
ON Characteristics



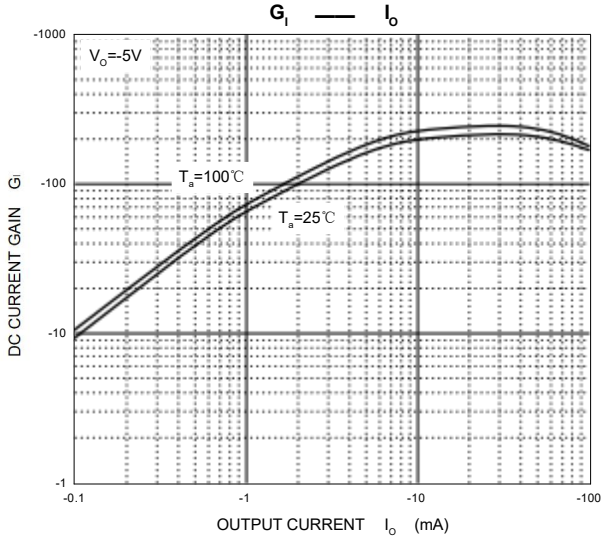
OFF Characteristics



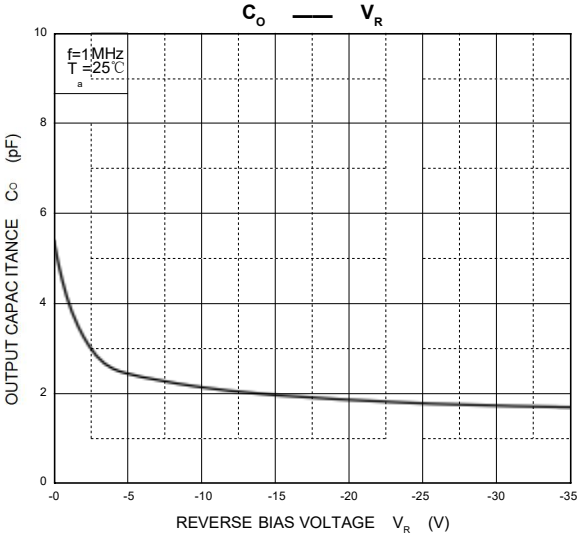
$V_{O(ON)}$ —— I_O



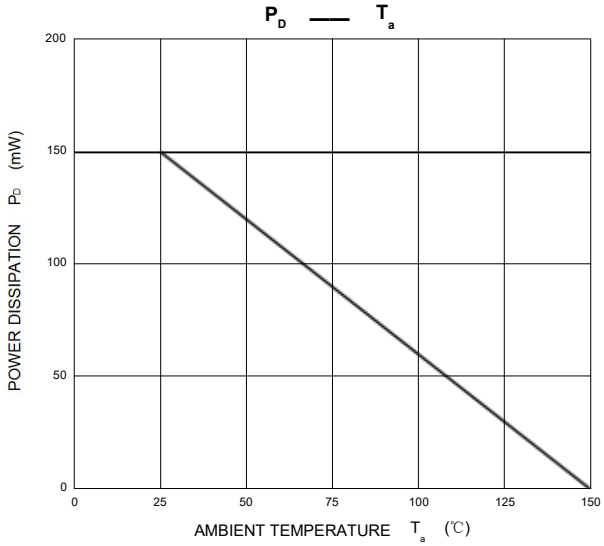
G_I —— I_O



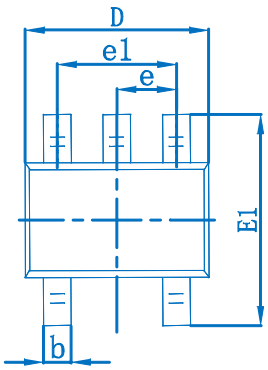
C_O —— V_R

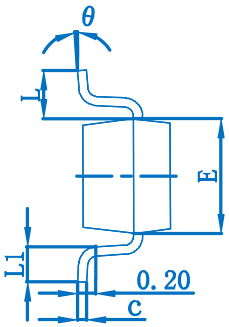


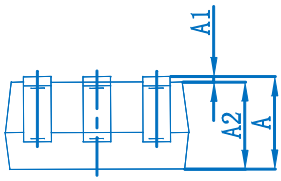
P_D —— T_a



SOT-353 Package Outline Dimensions

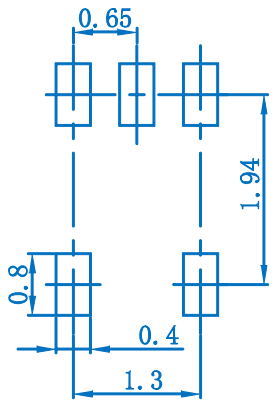






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650 TYP		0.026 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°

SOT-353 Suggested Pad Layout



Note:
1.Controlling dimension:In millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.