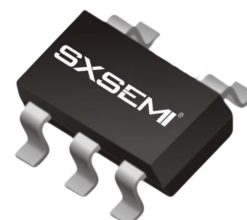


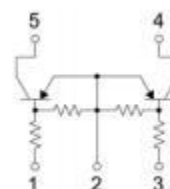
SOT-353

FEATURES

- Two DTA143Z chips in a package
- Mounting cost and area can be cut in half



Marking: A11



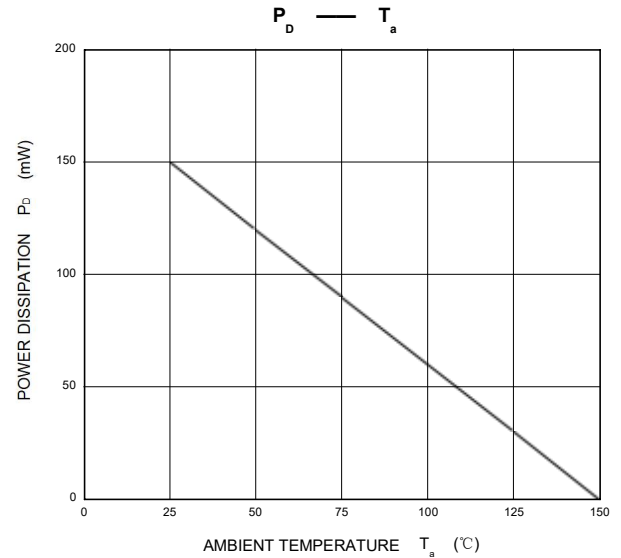
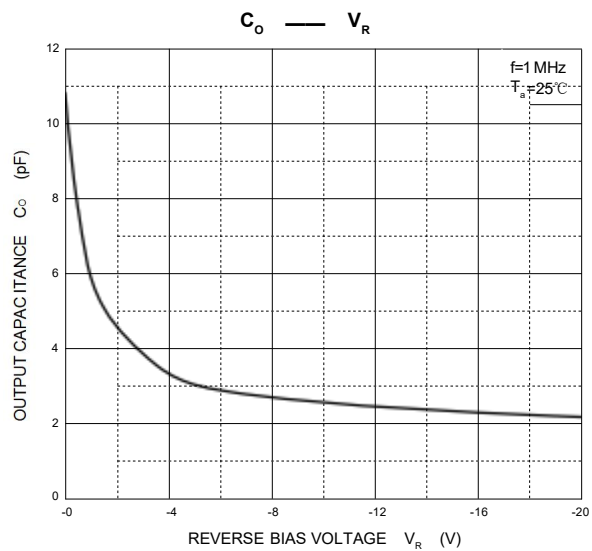
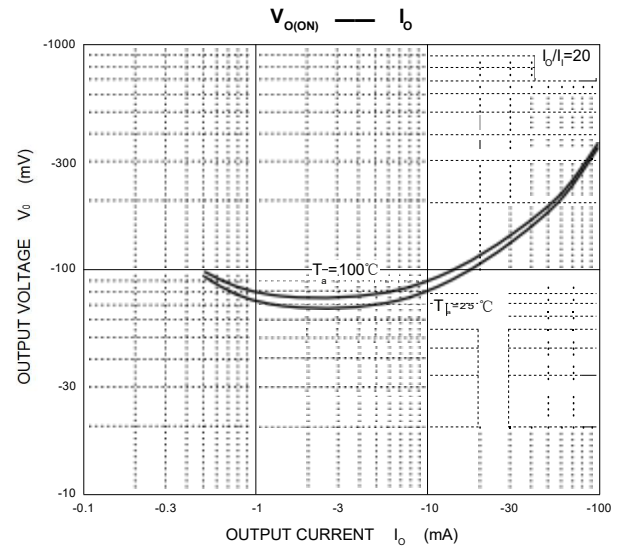
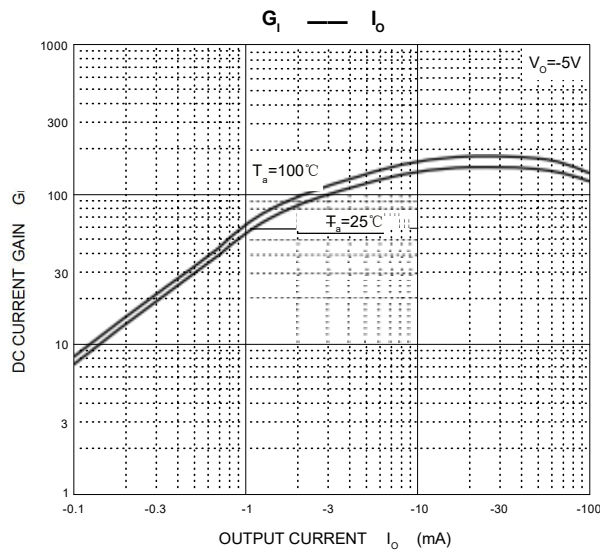
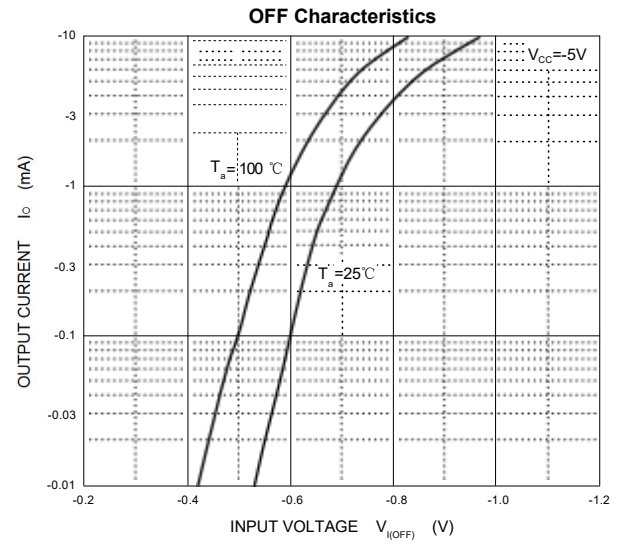
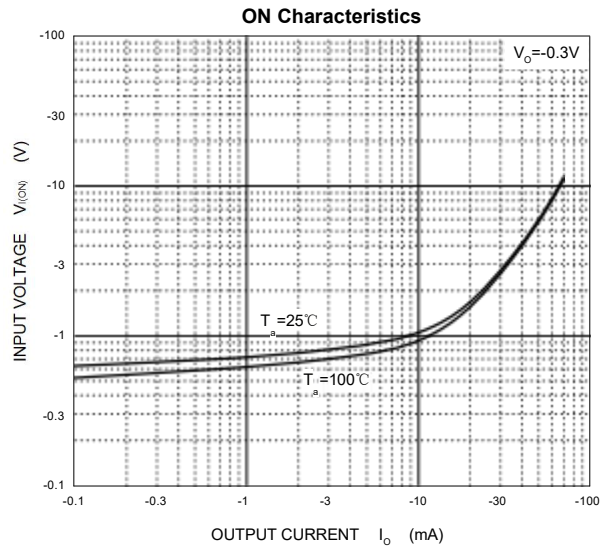
Absolute maximum ratings ($T_a=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Units
V_{CC}	Supply Voltage	-50	V
$I_{C(MAX)}$	Output Current	-100	mA
V_i	Input Voltage	-30 to +5	V
P_D	Power Dissipation	150	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

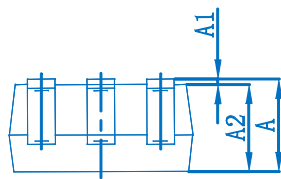
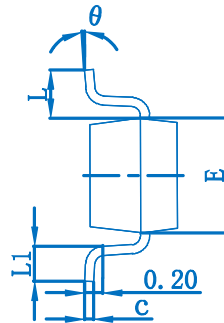
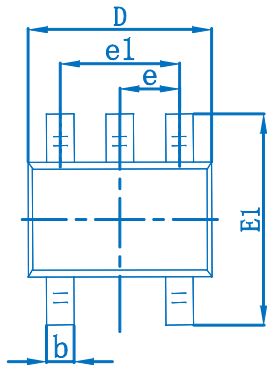
Electrical Characteristics ($T_a=25^{\circ}\text{C}$)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Input turn-on voltage	$V_{i(on)}$	$V_o=-0.3V, I_o=-5mA$			-1.3	V
Input cut-off voltage	$V_{i(off)}$	$V_{CC}=-5V, I_o=-100\mu A$	-0.5			V
Output voltage	$V_{O(on)}$	$I_o=-5mA, I_i=-0.25mA$			-0.3	V
Input cut-off current	I_i	$V_i=-5V$			-1.8	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		3.29		6.11	K Ω
Resistance ratio	R_2/R_1		8		12	

Typical Characteristics

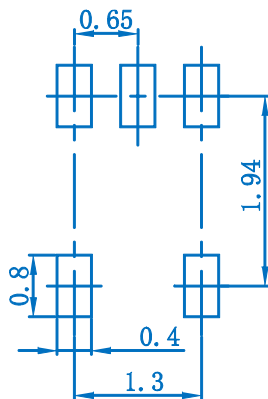


SOT-353 Package Outline Dimensions



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
theta	0°	8°	0°	8°

SOT-353 Suggested Pad Layout



Note:

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