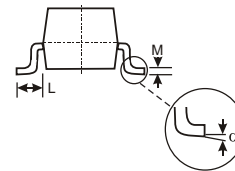
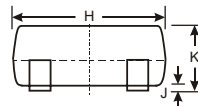
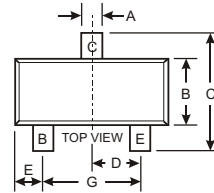


Features

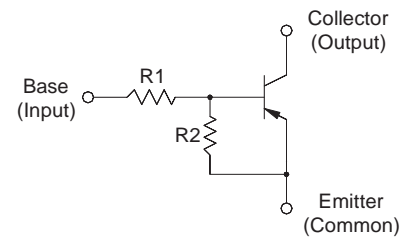
- With built-in bias resistors.
- Simplify circuit design.
- Reduce a quantity of parts and manufacturing process.
- Marking Code:52



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

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}	-12~+5	V
Output Current	I_O	-100	mA
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	- 55 to + 150	$^\circ\text{C}$

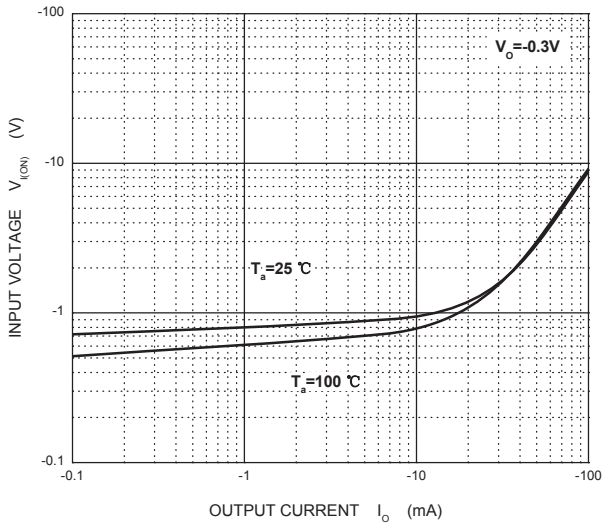


Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

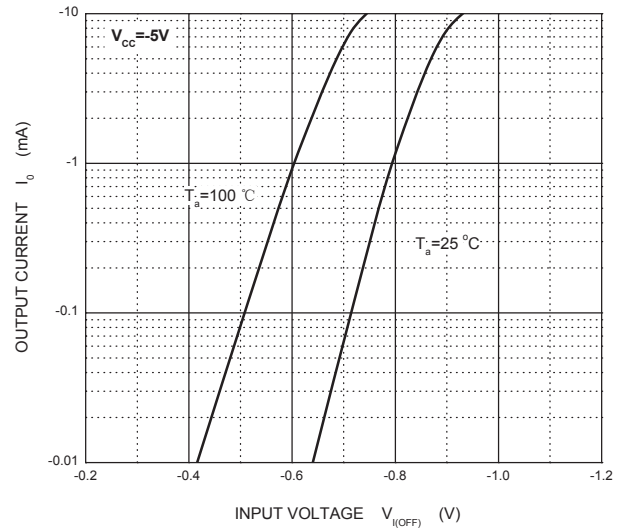
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Input voltage	$V_{I(off)}$	$V_{CC} = -5V, I_O = -100\mu\text{A}$	-0.3			V
	$V_{I(on)}$	$V_O = -0.3V, I_O = -20\text{mA}$			-3	V
Output voltage	$V_{O(on)}$	$I_O/I_I = -10\text{mA}/-0.5\text{mA}$			-0.3	V
Input current	I_I	$V_I = -5V$			-3.8	mA
Output current	$I_{O(off)}$	$V_{CC} = -50V, V_I = 0$			-0.5	μA
DC current gain	G_I	$V_O = -5V, I_O = -10\text{mA}$	33			
Input resistance	R_I		1.54	2.2	2.86	$\text{k}\Omega$
Resistance ratio	R_2/R_1		3.6	4.5	5.5	
Transition frequency	f_T	$V_O = -10V, I_O = -5\text{mA}, f = 100\text{MHz}$		250		MHz

TYPICAL TRANSIENT CHARACTERISTICS

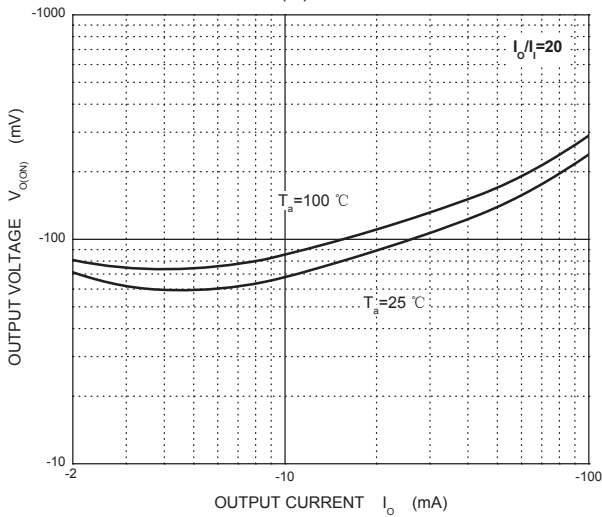
ON Characteristics



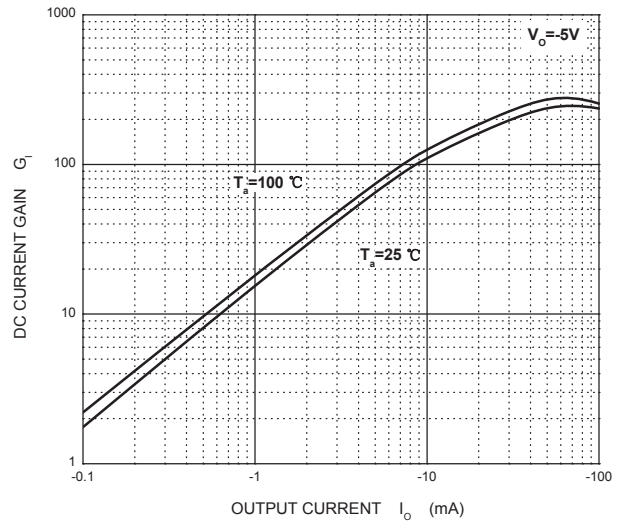
OFF Characteristics



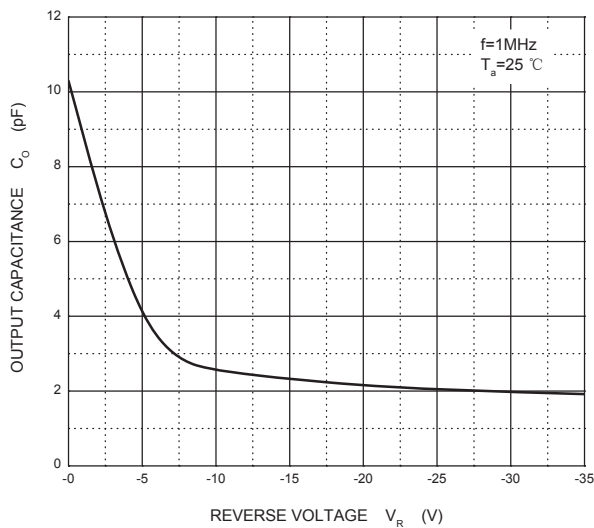
$V_{o(ON)}$ — I_o



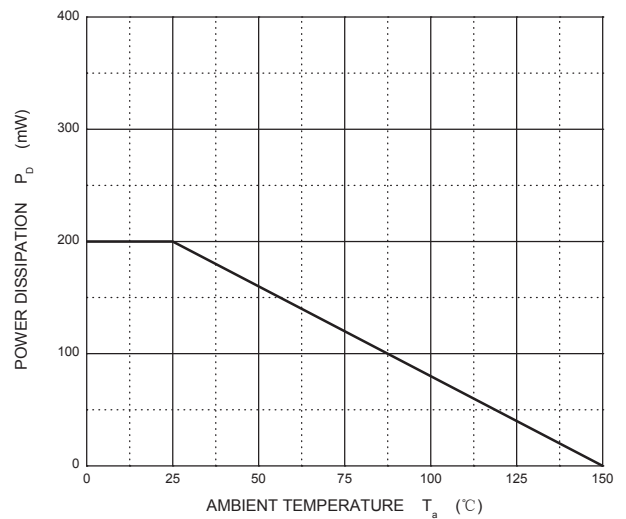
G_i — I_o



C_o — V_R



P_D — T_a



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