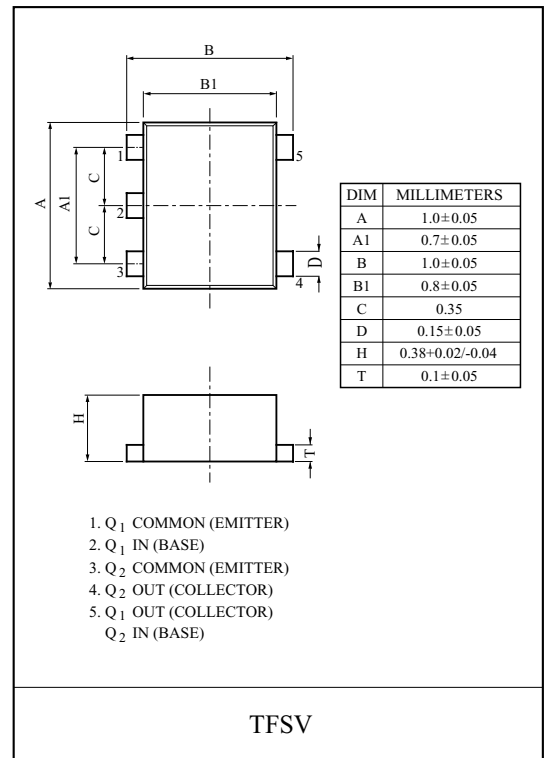
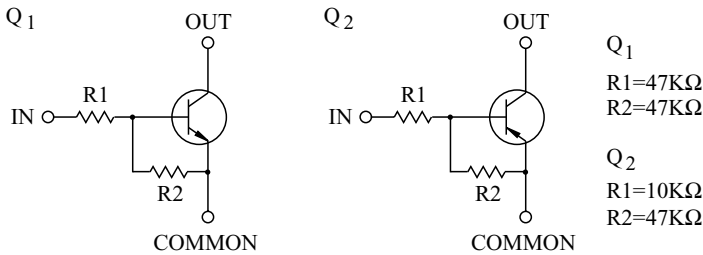


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

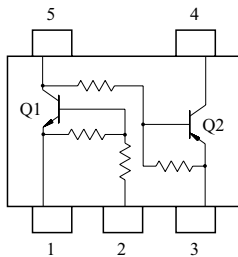
### FEATURES

- Including two devices in TFSV.  
(Thin Fine Pitch Super mini 5pin Package.)
- With Built-in bias resistors.
- Simplify circuit design.
- Reduce a quantity of parts and manufacturing process.

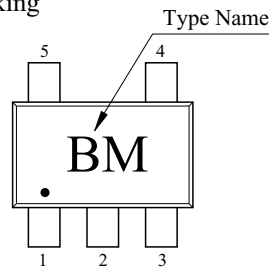
### EQUIVALENT CIRCUIT



### EQUIVALENT CIRCUIT (TOP VIEW)



### Marking



### Q1 MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	$V_{CEO}$	20	V
Emitter-Base Voltage	$V_{EBO}$	10	V
Collector Current	$I_C$	50	mA

### Q2 MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Emitter Voltage	$V_{CEO}$	-20	V
Emitter-Base Voltage	$V_{EBO}$	-6	V
Collector Current	$I_C$	-50	mA

### Q1, Q2 MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	$P_D^*$	100	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

\* Total Raing.

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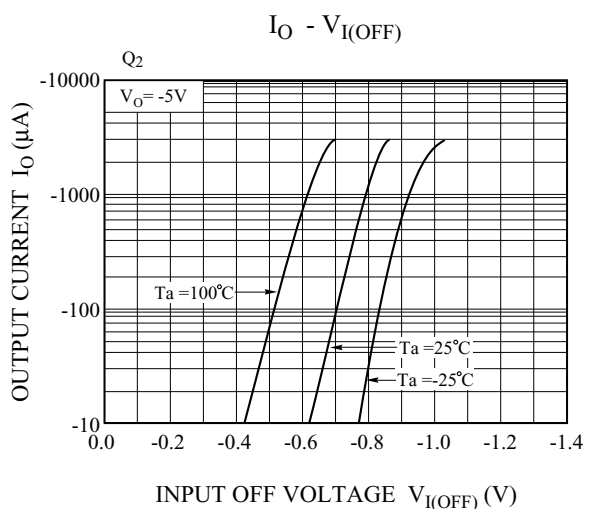
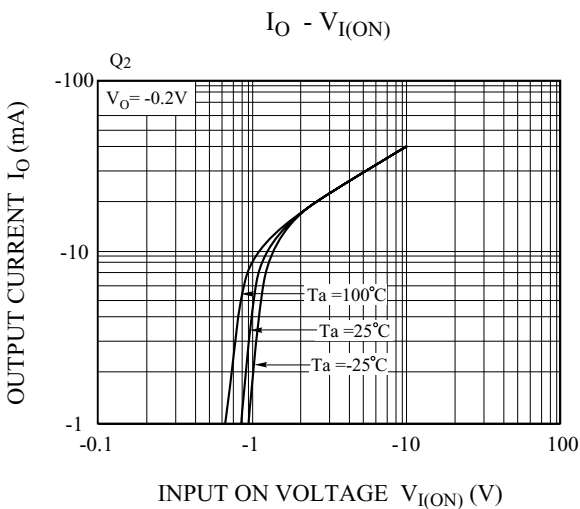
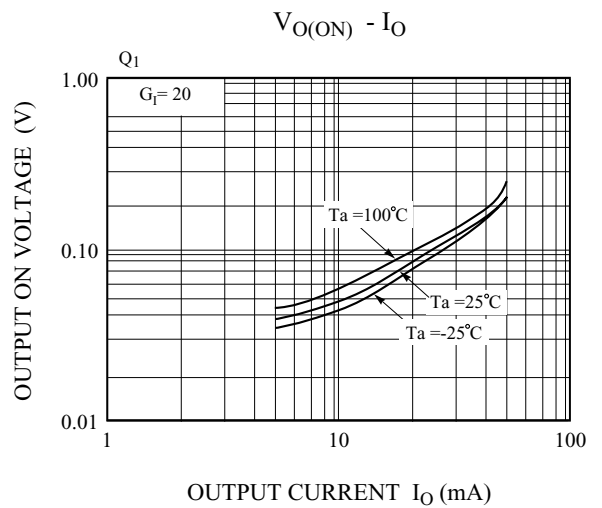
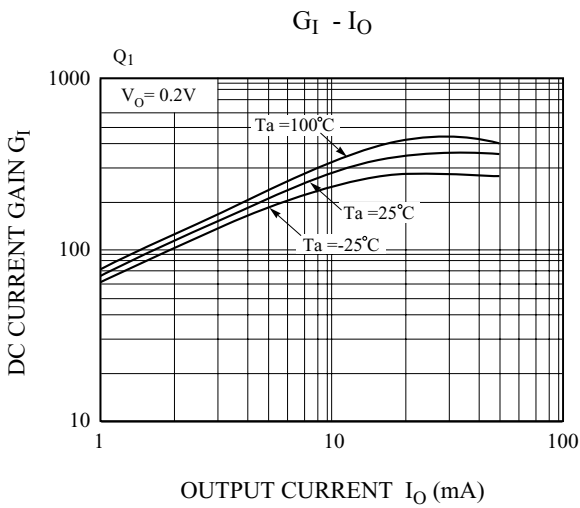
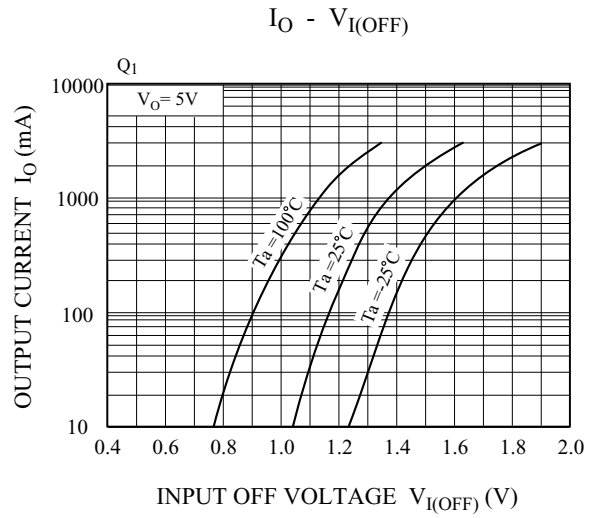
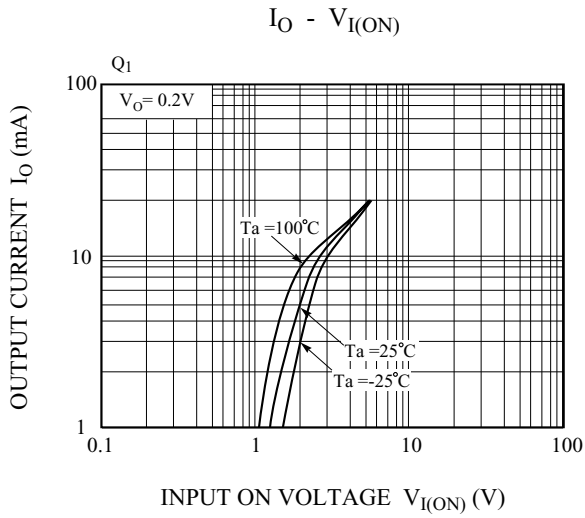
## Q1 ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT.
Output Cut-off Current	$I_{CBO}$	$V_{CB}=20V, I_E=0$	-	-	500	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=10V, I_C=0$	0.08	-	0.15	mA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_C=10mA$	120	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5mA, I_B=0.25mA$	-	-	0.15	V
Input Voltage (ON)	$V_{I(ON)}$	$V_{CE}=0.2V, I_C=5mA$	1.2	-	3.6	V
Input Voltage (OFF)	$V_{I(OFF)}$	$V_{CE}=5V, I_C=0.1mA$	0.8	-	1.5	V
Input Resistor	$R_1$	-	32.9	-	61.1	-
Resistor ratio	$R_1/R_2$	-	0.8	-	1.2	-

## Q2 ELECTRICAL CHARACTERISTICS (Ta=25 °C)

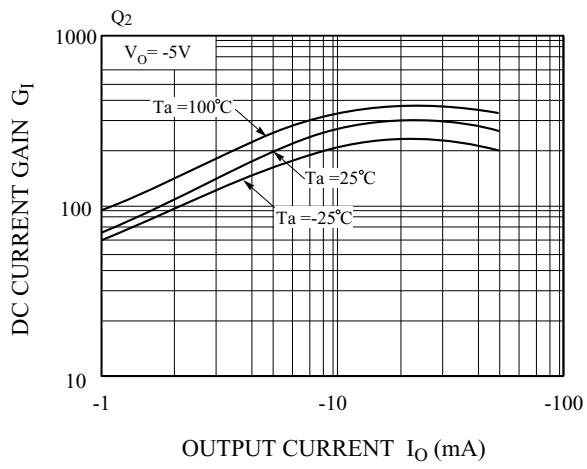
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT.
Output Cut-off Current	$I_{CBO}$	$V_{CB}=-20V, I_E=0$	-	-	-500	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-6V, I_C=0$	-0.08	-	-0.15	mA
DC Current Gain	$h_{FE}$	$V_{CE}=-5V, I_C=-10mA$	120	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-5mA, I_B=-0.25mA$	-	-	-0.15	V
Input Voltage (ON)	$V_{I(ON)}$	$V_{CE}=-0.2V, I_C=-5mA$	-0.7	-	-1.5	V
Input Voltage (OFF)	$V_{I(OFF)}$	$V_{CE}=-5V, I_C=-0.1mA$	-0.5	-	-1	V
Input Resistor	$R_1$	-	7	10	13	-
Resistor ratio	$R_1/R_2$	-	0.17	0.21	0.255	-

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$G_I - I_O$



$V_{O(ON)} - I_O$

