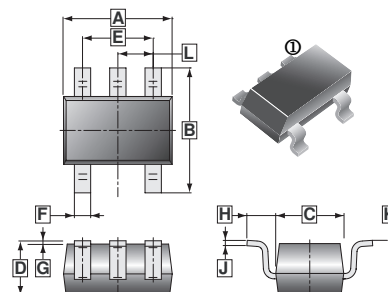


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Including two devices in USV (UltraSuperminitypewith5leads.)
- With Built-in bias resistors.
- Simplify circuit design.
- Reduce a quantity of parts and manufacturing process.

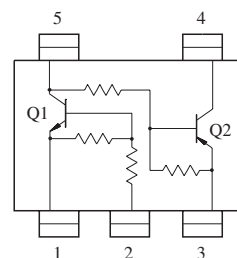
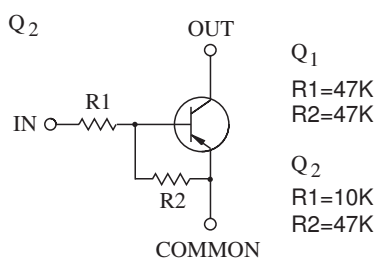
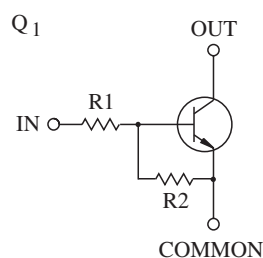
SOT-353



MARKING CODE

BM

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.00	2.20	G	0.100 REF.	
B	2.15	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.15
D	0.90	1.10	K	8°	
E	1.20	1.40	L	0.650 TYP.	
F	0.15	0.35			



Q1 MAXIMUM RATINGS (at Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Output Voltage	V _O	50	V
Input Voltage	V _I	40, -10	V
Output Current	I _O	100	mA

Q2 MAXIMUM RATINGS (at Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Output Voltage	V _O	-50	V
Input Voltage	V _I	-30, 6	V
Output Current	I _O	-100	mA

Q1 Q2 MAXIMUM RATINGS (at Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Power Dissipation	P _D *	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

* Total Rating.

Q1 ELECTRICAL CHARACTERISTICS (at Ta = 25°C)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Output Cut-off Current	$I_{O(OFF)}$	-	-	500	nA	$V_O = 50V, V_I = 0$
DC Current Gain	G_I	80	200	-		$V_O = 5V, I_O = 10mA$
Output Voltage	$V_{O(ON)}$	-	0.1	0.3	V	$I_O = 10mA, I_I = 0.5mA$
Input Voltage(ON)	$V_{I(ON)}$	-	2.8	5.0	V	$V_O = 0.2V, I_O = 5mA$
Input Voltage(OFF)	$V_{I(OFF)}$	1.0	1.2	-	V	$V_O = 5V, I_O = 0.1mA$
Transition Frequency	f_T^*	-	200	-	MHz	$V_O = 10V, I_O = 5mA$
Input Current	I_I	-	-	0.18	mA	$V_I = 5V$

* Characteristics of Transistor Only.

Q2 ELECTRICAL CHARACTERISTICS (at Ta = 25°C)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Output Cut-off Current	$I_{O(OFF)}$	-	-	-500	nA	$V_O = -50V, V_I = 0$
DC Current Gain	G_I	80	150	-		$V_O = -5V, I_O = -10mA$
Output Voltage	$V_{O(ON)}$	-	-0.1	-0.3	V	$I_O = -10mA, I_I = -0.5mA$
Input Voltage(ON)	$V_{I(ON)}$	-	-1.2	-1.8	V	$V_O = -0.2V, I_O = -5mA$
Input Voltage(OFF)	$V_{I(OFF)}$	-0.5	-0.75	-	V	$V_O = -5V, I_O = -0.1mA$
Transition Frequency	f_T^*	-	200	-	MHz	$V_O = -10V, I_O = -5mA$
Input Current	I_I	-	-	-0.88	mA	$V_I = -5V$

* Characteristics of Transistor Only.

CHARACTERISTIC CURVES

