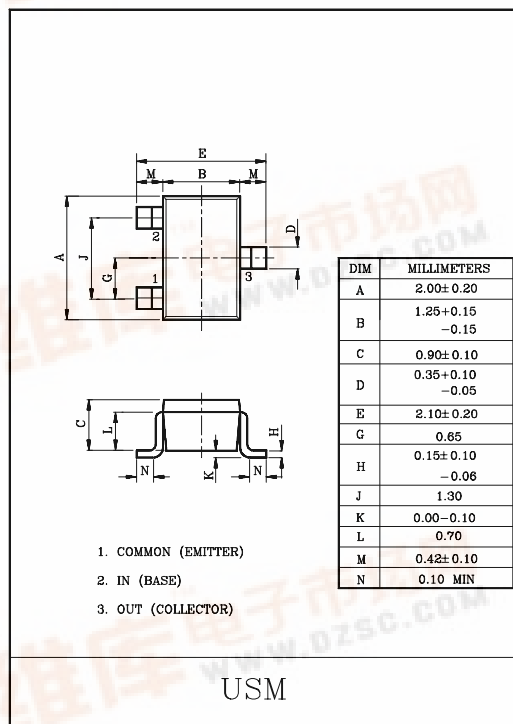
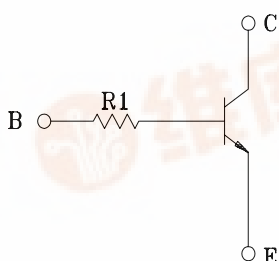


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Packing Density.

EQUIVALENT CIRCUIT



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	100	mA

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector Power Dissipation	P _C	100	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

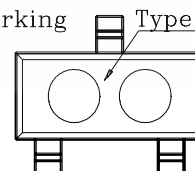
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =50V, I _E =0	-	-	100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0	-	-	100	nA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =1mA	120	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =10mA, I _B =0.5mA	-	0.1	0.3	V
Transition Frequency	f _T *	V _{CE} =10V, I _C =5mA	-	250	-	MHz
Input Resistor	KRC410	R ₁	-	4.7	-	kΩ
	KRC411		-	10	-	
	KRC412		-	100	-	
	KRC413		-	22	-	
	KRC414		-	47	-	

Note : * Characteristic of Transistor Only

MARK SPEC

TYPE	KRC410	KRC411	KRC412	KRC413	KRC414
MARK	NK	NM	NN	NO	NP

Marking Type Name



KRC410~KRC414

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Switching Time	Rise Time	KRC410	$V_O=5V$ $V_{IN}=5V$ $R_L=1k\Omega$	-	0.025	-	μS	
		KRC411		-	0.03	-		
		KRC412		-	0.3	-		
		KRC413		-	0.06	-		
		KRC414		-	0.11	-		
	Storage Time	KRC410		t_{stg}	-	3.0		-
		KRC411			-	2.0		-
		KRC412			-	6.0		-
		KRC413			-	4.0		-
		KRC414			-	5.0		-
	Fall Time	KRC410		t_f	-	0.2		-
		KRC411			-	0.12		-
		KRC412			-	2.0		-
		KRC413			-	0.9		-
		KRC414			-	1.4		-