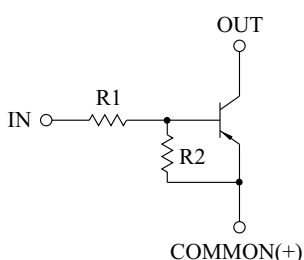


HIGH CURRENT SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

FEATURES

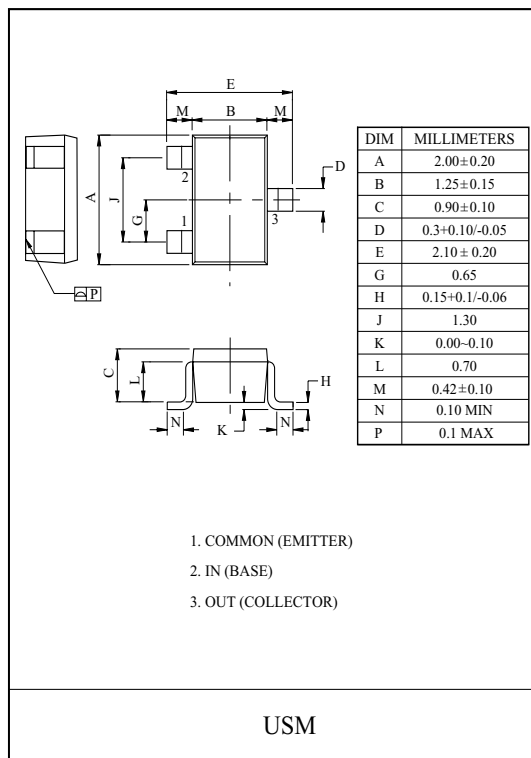
- With Built-in Bias Resistors.
- Simplify Circuit Design.
- Reduce a Quantity of Parts and Manufacturing Process.
- High Output Current :-500mA.
- Suffix U : Qualified to AEC-Q101.
ex) KRA352-RTK/HU

EQUIVALENT CIRCUIT



BIAS RESISTOR VALUES

TYPE NO.	R1(k Ω)	R2(k Ω)
KRA351	1	1
KRA352	2.2	2.2
KRA353	4.7	4.7
KRA354	10	10
KRA355	0.47	10
KRA356	1	10
KRA357	2.2	10



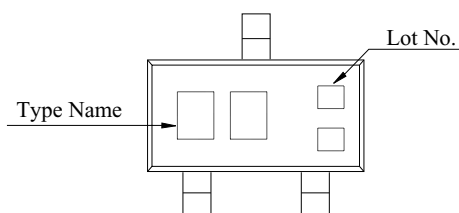
MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRA351 357	V _O	-12	V
Input Voltage	KRA351	V _I	-10, 10	V
	KRA352		-12, 10	
	KRA353		-20, 10	
	KRA354		-30, 10	
	KRA355		-10, 5	
	KRA356		-10, 5	
	KRA357		-12, 6	
Output Current	KRA351 357	I _O	-500	mA
Power Dissipation		P _D	100	mW
Junction Temperature		T _j	-55~150	
Storage Temperature Range		T _{stg}	-55~150	

MARK SPEC

TYPE	KRA351	KRA352	KRA353	KRA354	KRA355	KRA356	KRA357
MARK	AA	AB	AC	AD	AE	AF	AG

Marking



KRA351~357

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRA351 357	$I_{O(OFF)}$	$V_O = -12V, V_I = 0$	-	-	-10	μA
DC Current Gain	KRA351	G_I	$V_O = -5V, I_O = -50mA$	33	-	-	
	KRA352			39	-	-	
	KRA353			47	-	-	
	KRA354			56	-	-	
	KRA355			56	-	-	
	KRA356			56	-	-	
	KRA357			56	-	-	
Output Voltage	KRA351 357	$V_{O(ON)}$	$I_O = -50mA, I_I = -2.5mA$	-	-0.1	-0.3	V
Input Voltage (ON)	KRA351	$V_{I(ON)}$	$V_O = -0.3V, I_O = -20mA$	-	-	-3.0	V
	KRA352			-	-	-3.0	
	KRA353			-	-	-3.0	
	KRA354			-	-	-3.0	
	KRA355			-	-	-3.0	
	KRA356			-	-	-3.0	
	KRA357					-2.0	
Input Voltage (OFF)	KRA351 354	$V_{I(OFF)}$	$V_O = -5V, I_O = -0.1mA$	-0.5	-	-	V
	KRA355 357			-0.3	-	-	
Transition Frequency	KRA351 357	f_T^*	$V_O = -10V, I_O = -5mA, f = 100MHz$	-	200	-	MHz
Input Current	KRA351	I_I	$V_I = -5V$	-	-	-7.2	mA
	KRA352			-	-	-3.8	
	KRA353			-	-	-1.8	
	KRA354			-	-	-0.88	
	KRA355			-	-	-7.2	
	KRA356			-	-	-7.2	
	KRA357			-	-	-3.6	
Input Resistor	KRA351	R1	-	0.7	1	1.3	k Ω
	KRA352			1.54	2.2	2.86	
	KRA353			3.29	4.7	6.11	
	KRA354			7	10	13	
	KRA355			0.329	0.47	0.611	
	KRA356			0.7	1	13	
	KRA357			1.54	2.2	2.86	
Resistor Ratio	KRA351 354	R2/R1	-	0.8	1.0	1.2	
	KRA355			17	21	26	
	KRA356			8	10	12	
	KRA357			3.6	4.5	5.5	

Note : * Characteristic of Transistor Only.