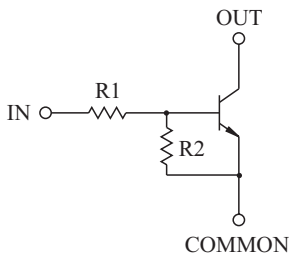


SWITCHING APPLICATION.
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION

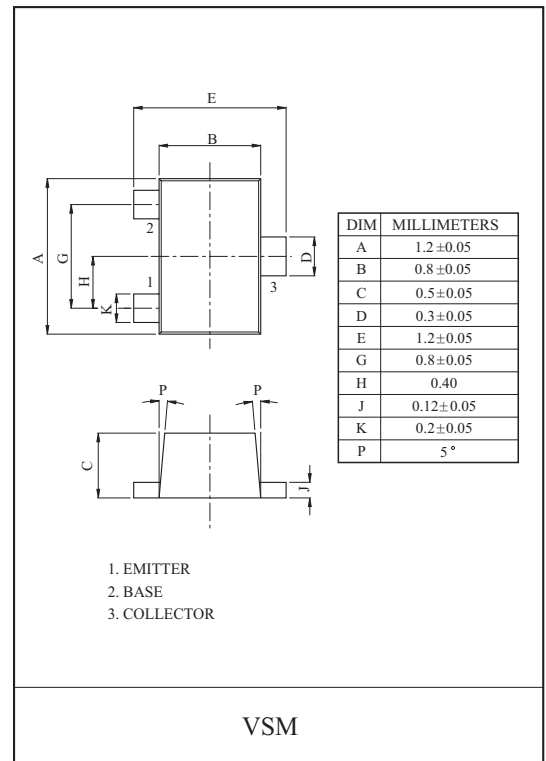
FEATURES

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

EQUIVALENT CIRCUIT



TYPE NO.	R1(k)	R2(k)
KRC416V	1	10
KRC417V	2.2	2.2
KRC418V	2.2	10
KRC419V	4.7	10
KRC420V	10	4.7
KRC421V	47	10
KRC422V	100	100



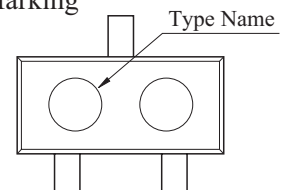
MAXIMUM RATING (Ta=25)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC416V~422V	V_O	50	V
Input Voltage	KRC416V	V_I	10, -5	V
	KRC417V		12, -10	
	KRC418V		12, -5	
	KRC419V		20, -7	
	KRC420V		30, -10	
	KRC421V		40, -15	
	KRC422V		40, -10	
Output Current	KRC416V~422V	I_O	100	mA
Power Dissipation		P_D	100	mW
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

MARK SPEC

TYPE	KRC416V	KRC417V	KRC418V	KRC419V	KRC420V	KRC421V	KRC422V
MARK	N2	N4	N5	N6	N7	N8	N9

Marking



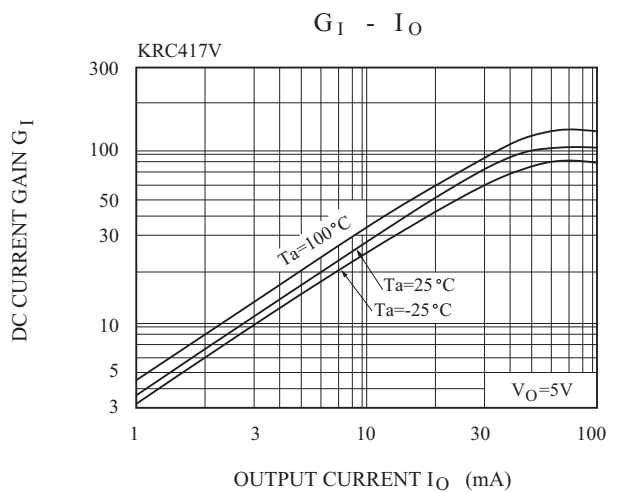
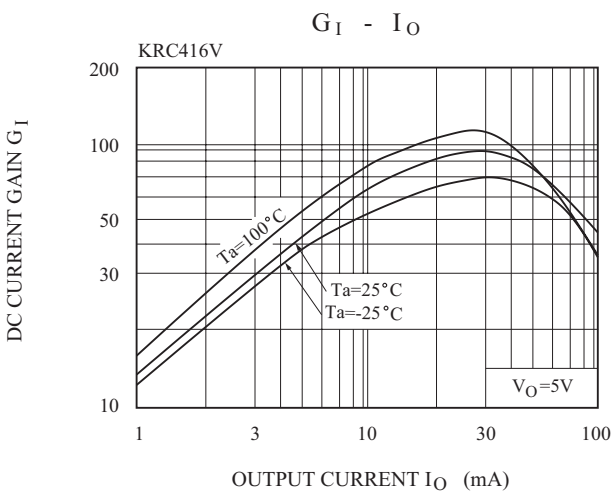
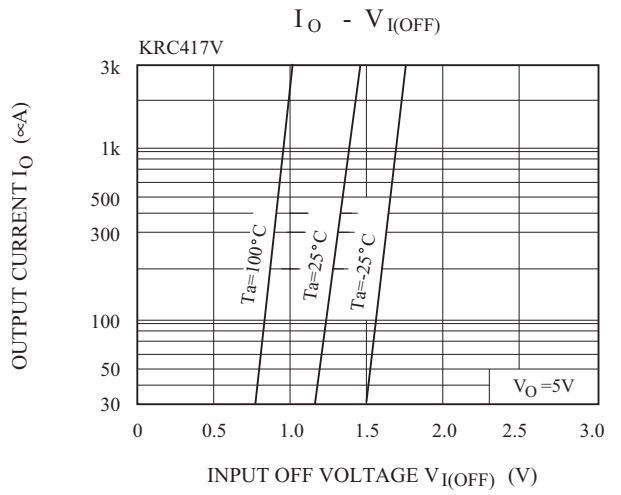
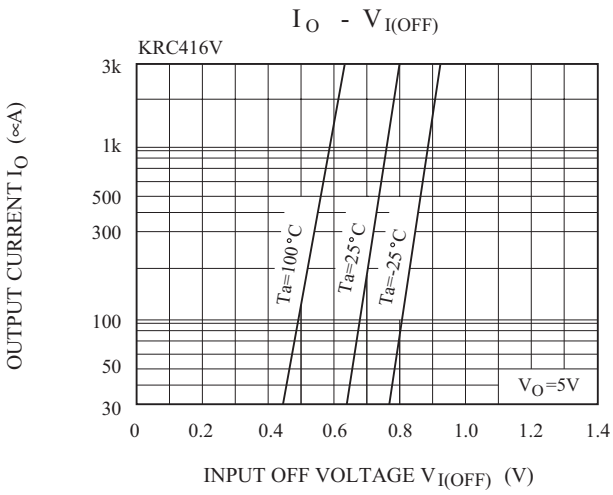
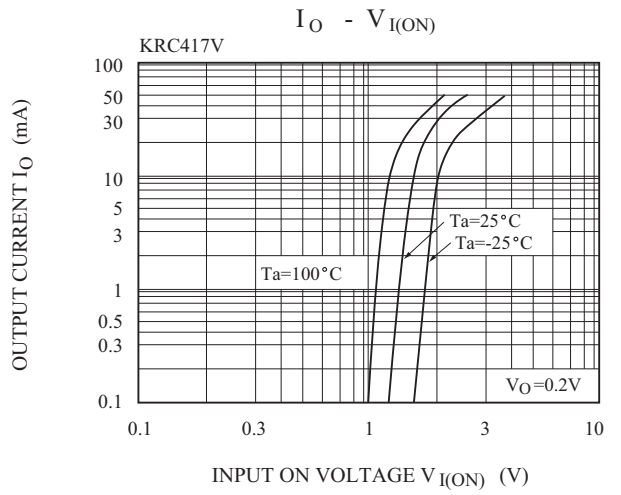
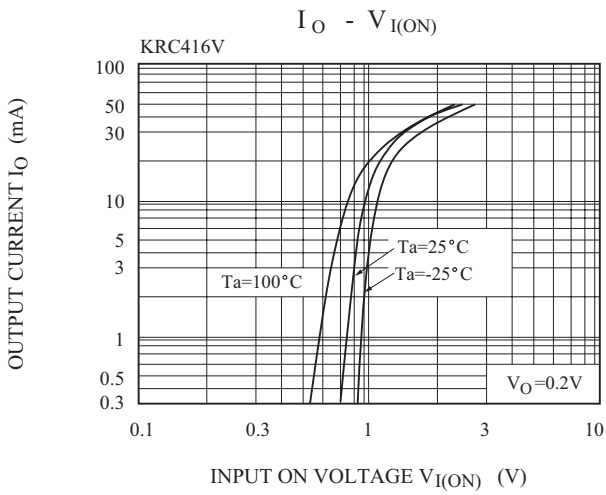
KRC416V~KRC422V

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

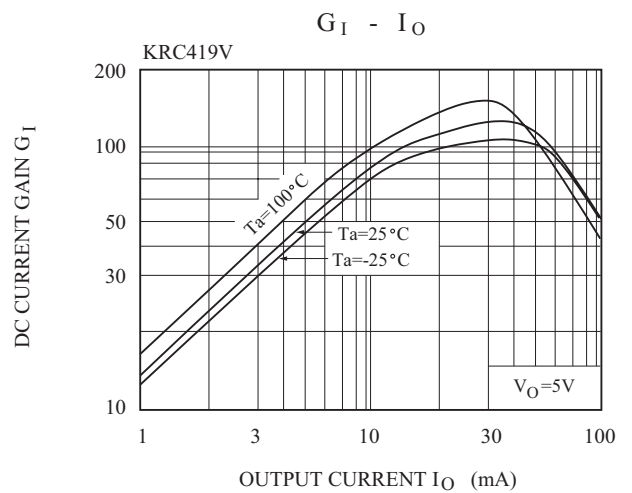
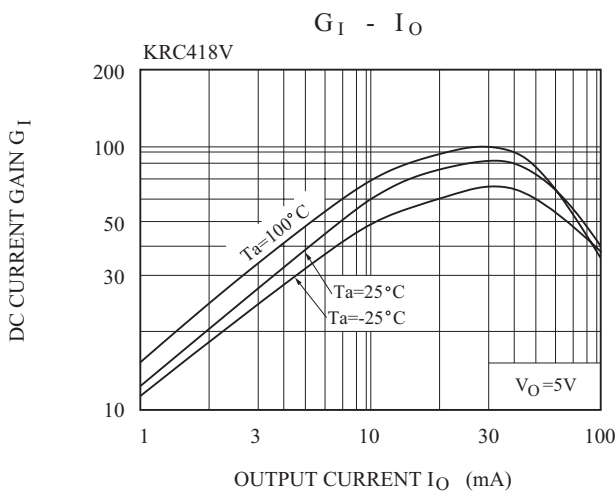
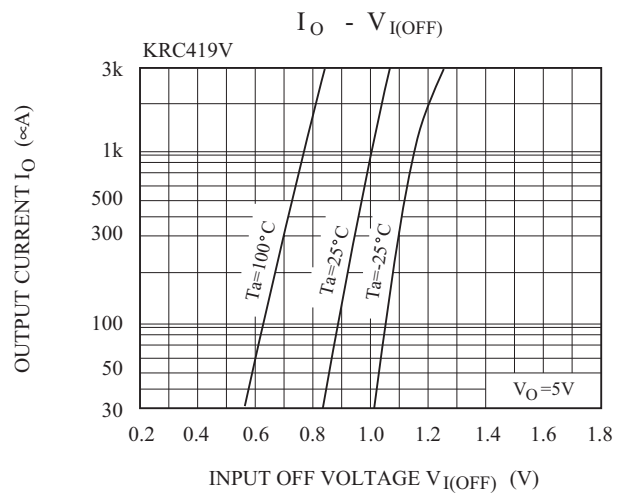
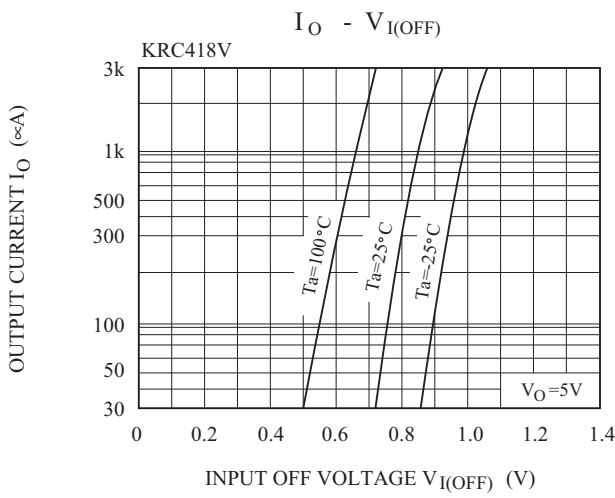
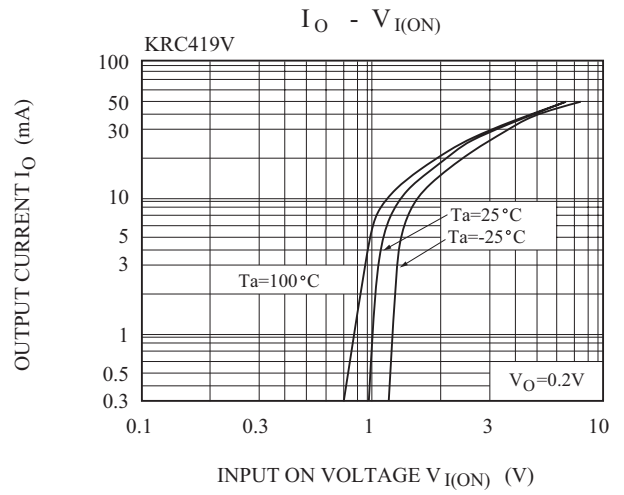
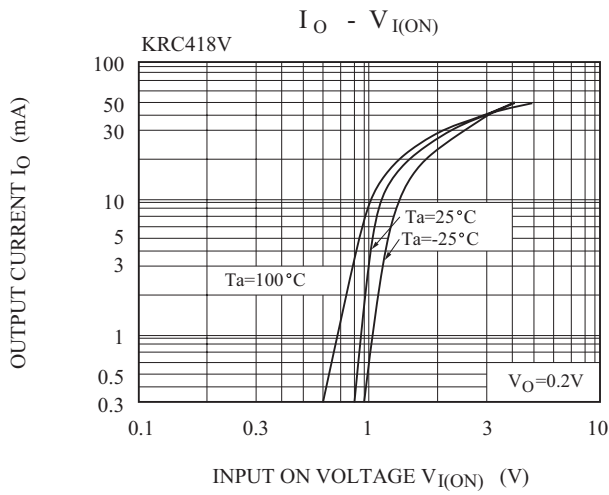
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC416V~422V	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC416V	G_I	$V_O=5V, I_O=5mA$	33	-	-	
	KRC417V		$V_O=5V, I_O=20mA$	20	-	-	
	KRC418V		$V_O=5V, I_O=10mA$	33	-	-	
	KRC419V		$V_O=5V, I_O=10mA$	30	-	-	
	KRC420V		$V_O=5V, I_O=10mA$	24	-	-	
	KRC421V		$V_O=5V, I_O=5mA$	33	-	-	
	KRC422V		$V_O=5V, I_O=5mA$	62	-	-	
	Output Voltage		KRC416V	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	
KRC417V		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC418V		$I_O=10mA, I_I=0.5mA$	-		-	0.3	
KRC419V		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC420V		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC421V		$I_O=10mA, I_I=0.5mA$	-		0.1	0.3	
KRC422V		$I_O=5mA, I_I=0.25mA$	-		0.1	0.3	
Input Voltage (ON)		KRC416V	$V_{I(ON)}$		$V_O=0.3V, I_O=20mA$	-	0.98
	KRC417V	$V_O=0.3V, I_O=20mA$		-	1.83	3	
	KRC418V	$V_O=0.3V, I_O=20mA$		-	1.22	3	
	KRC419V	$V_O=0.3V, I_O=20mA$		-	1.76	2.5	
	KRC420V	$V_O=0.3V, I_O=2mA$		-	2	3	
	KRC421V	$V_O=0.3V, I_O=2mA$		-	3.9	5	
	KRC422V	$V_O=0.3V, I_O=1mA$		-	1.64	3	
	Input Voltage (OFF)	KRC416V		$V_{I(OFF)}$	$V_{CC}=5V, I_O=100\mu A$	0.3	0.63
KRC417V		0.5	1.15			-	
KRC418V		0.3	0.67			-	
KRC419V		0.3	0.82			-	
KRC420V		0.8	1.68			-	
KRC421V		1	3.09			-	
KRC422V		0.5	1.17			-	
Transition Frequency		KRC416V~422V	f_T^*			$V_O=10V, I_O=5mA$	-
Input Current	KRC416V	I_I	$V_I=5V$	-	-	7.2	mA
	KRC417V			-	-	3.8	
	KRC418V			-	-	3.8	
	KRC419V			-	-	1.8	
	KRC420V			-	-	0.88	
	KRC421V			-	-	0.16	
	KRC422V			-	-	0.15	
	Input Resistor			KRC416V	R1	-	
KRC417V		1.54	2.2	2.86			
KRC418V		1.54	2.2	2.86			
KRC419V		3.29	4.7	6.11			
KRC420V		7	10	13			
KRC421V		32.9	47	61.1			
KRC422V		70	100	130			
Resistor Ratio		KRC416V	R2/R1	-			8
	KRC417V	0.8			1.0	1.2	
	KRC418V	3.6			4.5	5.5	
	KRC419V	1.7			2.1	2.6	
	KRC420V	0.37			0.47	0.57	
	KRC421V	0.17			0.21	0.26	
	KRC422V	0.8			1.0	1.2	

Note : * Characteristic of Transistor Only.

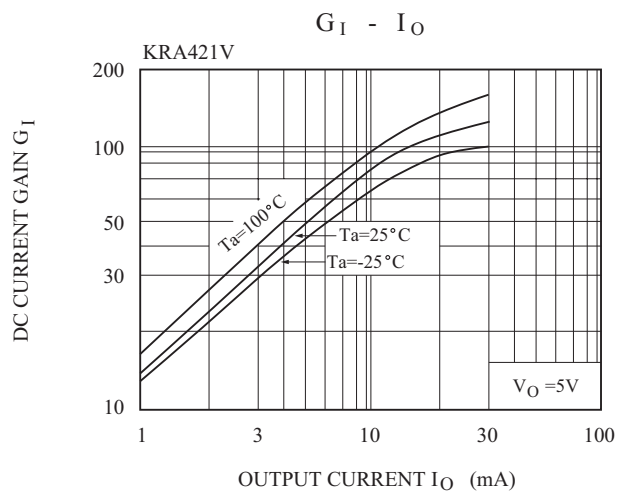
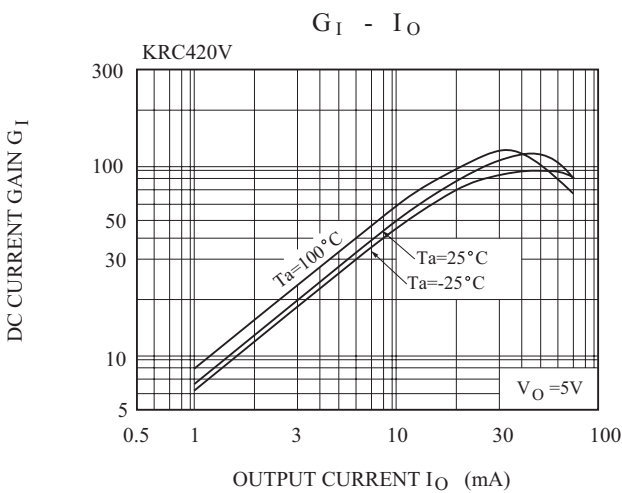
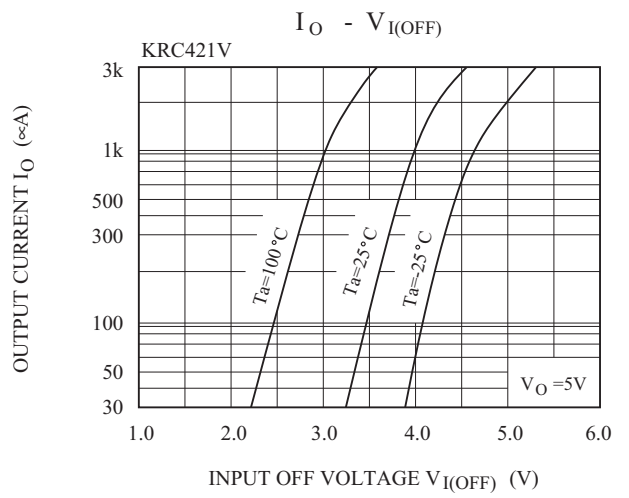
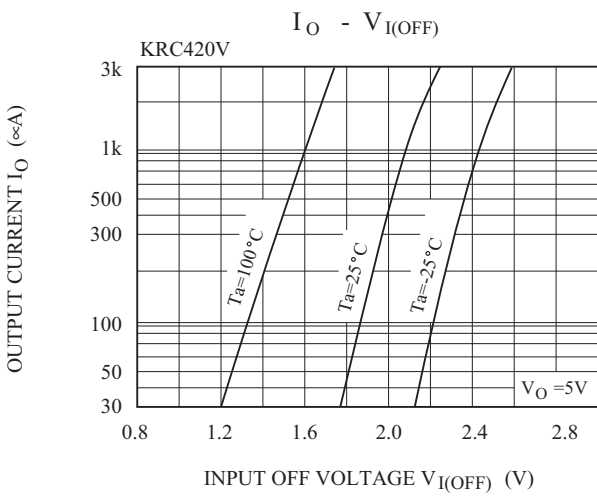
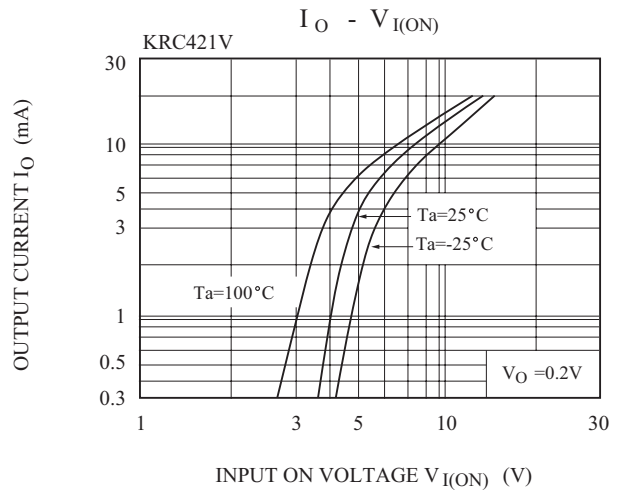
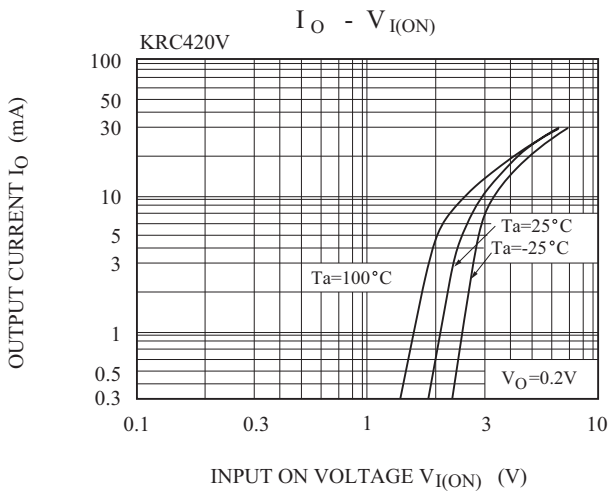
KRC416V~KRC422V



KRC416V~KRC422V



KRC416V~KRC422V



KRC416V~KRC422V

