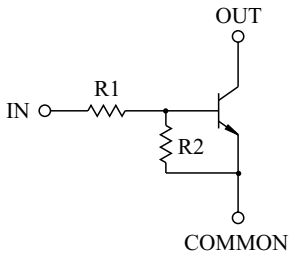


SWITCHING APPLICATION.  
INTERFACE CIRCUIT AND DRIVER CIRCUIT APPLICATION.

### FEATURES

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

### EQUIVALENT CIRCUIT



### BIAS RESISTOR VALUES

TYPE NO.	R1(k )	R2(k )
KRC401	4.7	4.7
KRC402	10	10
KRC403	22	22
KRC404	47	47
KRC405	2.2	47
KRC406	4.7	47

DIM	MILLIMETERS
A	2.00±0.20
B	1.25±0.15
C	0.90±0.10
D	0.3+0.10/-0.05
E	2.10 ± 0.20
G	0.65
H	0.15+0.1/-0.06
J	1.30
K	0.00-0.10
L	0.70
M	0.42±0.10
N	0.10 MIN
P	0.1 MAX

1. COMMON (EMITTER)  
2. IN (BASE)  
3. OUT (COLLECTOR)

USM

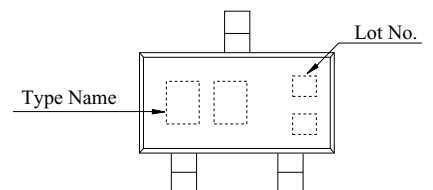
### MAXIMUM RATING (Ta=25 )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Output Voltage	KRC401 406	V <sub>O</sub>	50	V
Input Voltage	KRC401	V <sub>I</sub>	20, -10	V
	KRC402		30, -10	
	KRC403		40, -10	
	KRC404		40, -10	
	KRC405		12, -5	
	KRC406		20, -5	
Output Current	KRC401 406	I <sub>O</sub>	100	mA
Power Dissipation		P <sub>D</sub>	100	mW
Junction Temperature		T <sub>j</sub>	150	
Storage Temperature Range		T <sub>stg</sub>	-55 150	

### MARK SPEC

TYPE	KRC401	KRC402	KRC403	KRC404	KRC405	KRC406
MARK	NA	NB	NC	ND	NE	NF

### Marking



# KRC401~KRC406

## ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Output Cut-off Current	KRC401 406	$I_{O(OFF)}$	$V_O=50V, V_I=0$	-	-	500	nA
DC Current Gain	KRC401	$G_I$	$V_O=5V, I_O=10mA$	30	55	-	
	KRC402			50	80	-	
	KRC403			70	120	-	
	KRC404			80	200	-	
	KRC405			80	200	-	
	KRC406			80	200	-	
Output Voltage	KRC401 406	$V_{O(ON)}$	$I_O=10mA, I_I=0.5mA$	-	0.1	0.3	V
Input Voltage (ON)	KRC401	$V_{I(ON)}$	$V_O=0.2V, I_O=5mA$	-	1.5	2.0	V
	KRC402			-	1.8	2.4	
	KRC403			-	2.1	3.0	
	KRC404			-	2.8	5.0	
	KRC405			-	0.8	1.1	
	KRC406			-	0.9	1.3	
Input Voltage (OFF)	KRC401 404	$V_{I(OFF)}$	$V_O=5V, I_O=0.1mA$	1.0	1.2	-	V
	KRC405 406			0.5	0.65	-	
Transition Frequency	KRC401 406	$f_T^*$	$V_O=10V, I_O=5mA$	-	200	-	MHz
Input Current	KRC401	$I_I$	$V_I=5V$	-	-	1.8	mA
	KRC402			-	-	0.88	
	KRC403			-	-	0.36	
	KRC404			-	-	0.18	
	KRC405			-	-	3.6	
	KRC406			-	-	1.8	
Input Resistor	KRC401	R1	-	3.29	4.7	6.11	k
	KRC402			7	10	13	
	KRC403			15.4	22	28.6	
	KRC404			32.9	47	61.1	
	KRC405			1.54	2.2	2.86	
	KRC406			3.29	4.7	6.11	
Resistor Ratio	KRC401~404	R2/R1	-	0.8	1.0	1.2	
	KRC405			17	21	26	
	KRC406			8	10	12	

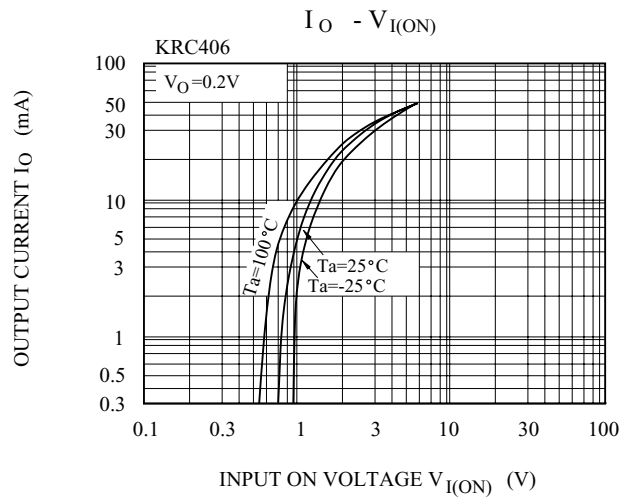
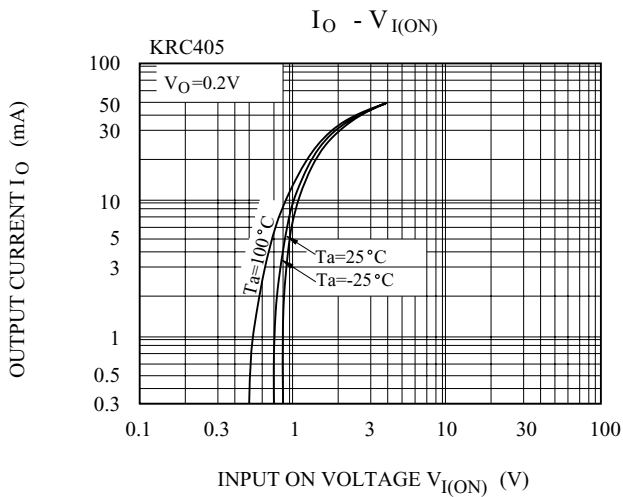
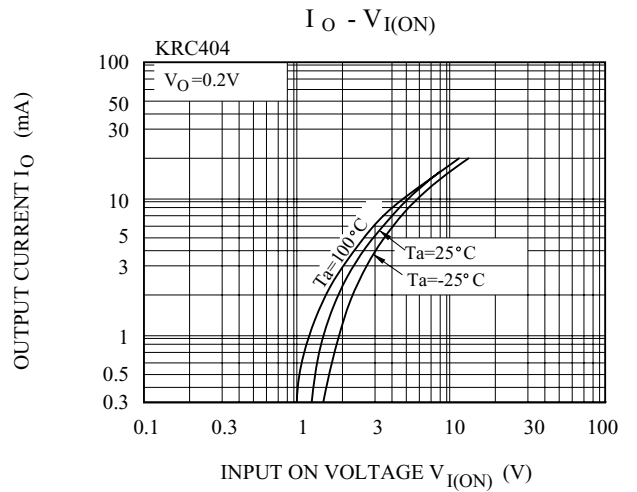
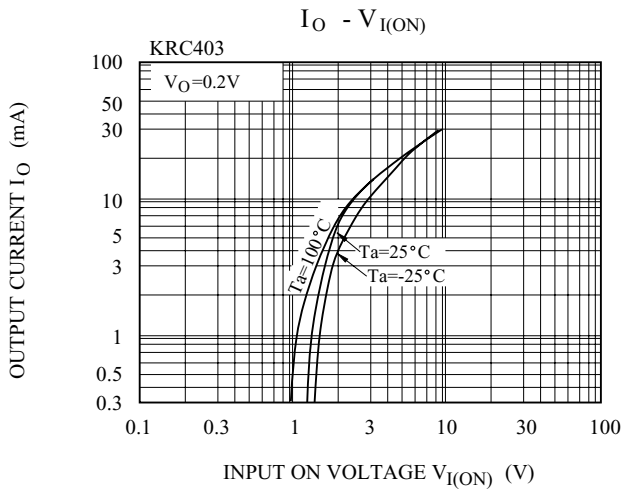
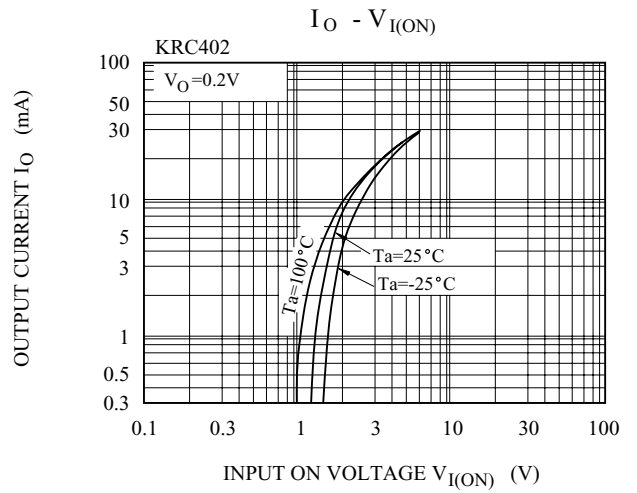
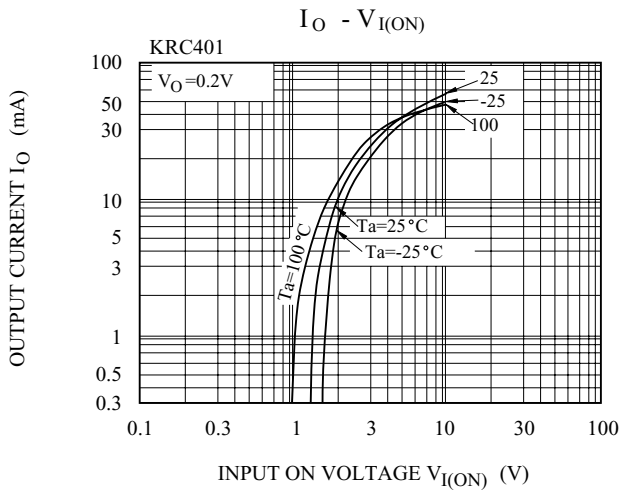
Note : \* Characteristic of Transistor Only.

# KRC401~KRC406

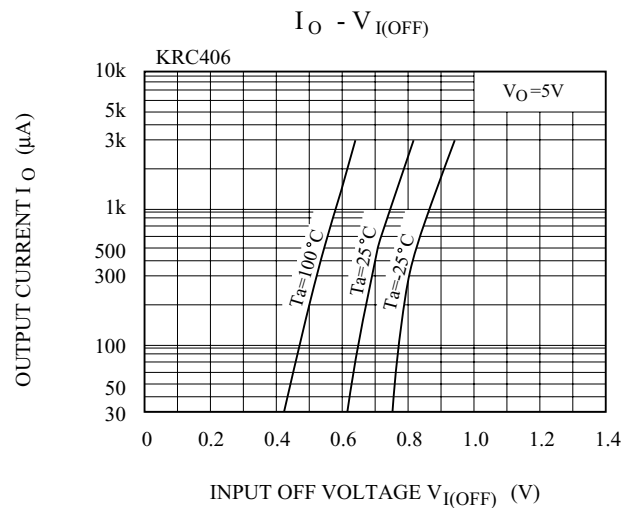
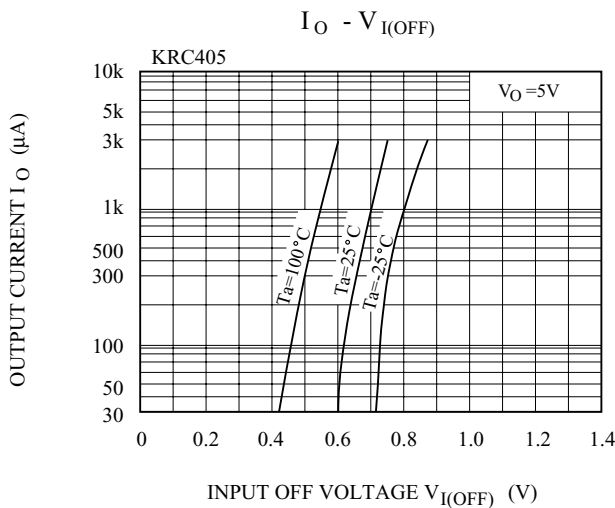
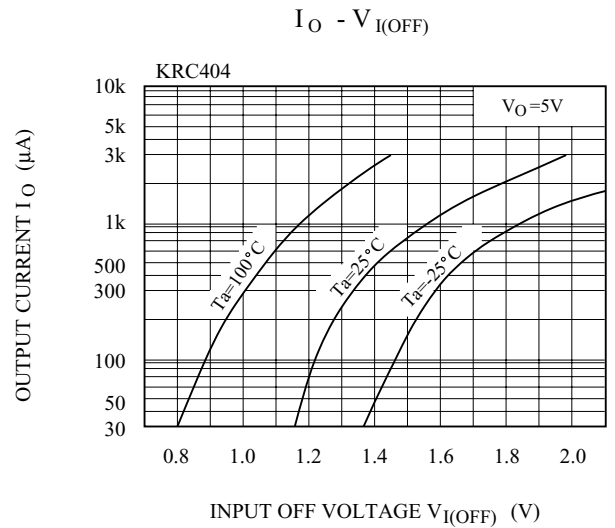
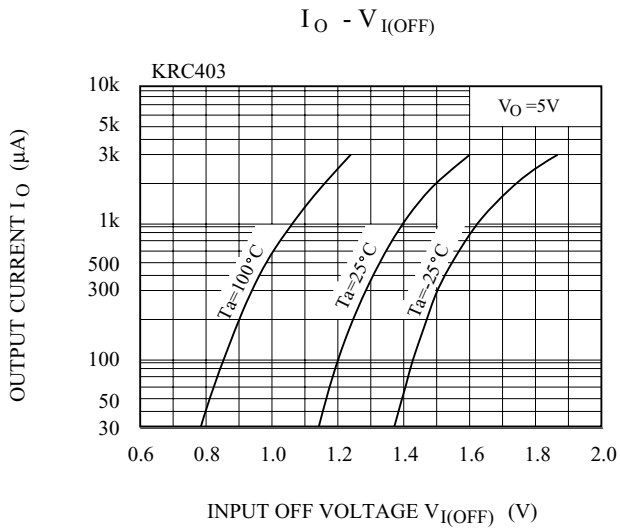
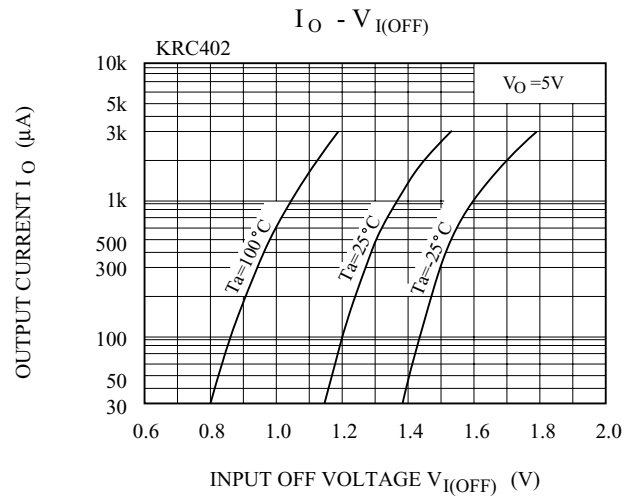
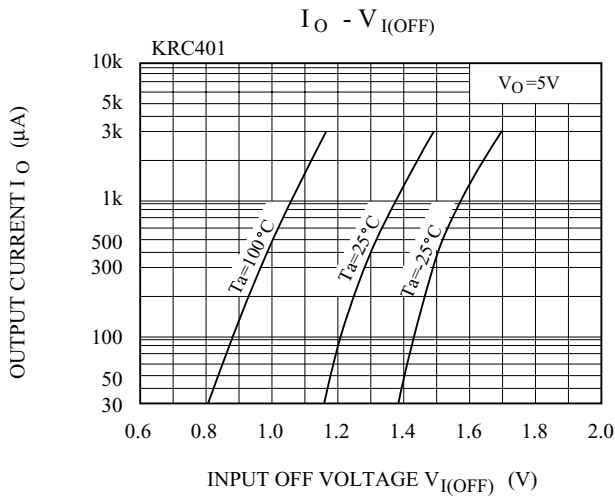
## ELECTRICAL CHARACTERISTICS (Ta=25 )

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Switching Time	Rise Time	KRC401	V <sub>O</sub> =5V V <sub>IN</sub> =5V R <sub>L</sub> =1k	-	0.03	-	μs
		KRC402		-	0.05	-	
		KRC403		-	0.12	-	
		KRC404		-	0.22	-	
		KRC405		-	0.01	-	
		KRC406		-	0.03	-	
	Storage Time	KRC401		-	2.0	-	
		KRC402		-	2.0	-	
		KRC403		-	2.0	-	
		KRC404		-	2.0	-	
		KRC405		-	2.0	-	
		KRC406		-	2.0	-	
	Fall Time	KRC401		-	0.12	-	
		KRC402		-	0.36	-	
		KRC403		-	0.35	-	
		KRC404		-	0.6	-	
		KRC405		-	0.1	-	
		KRC406		-	0.19	-	

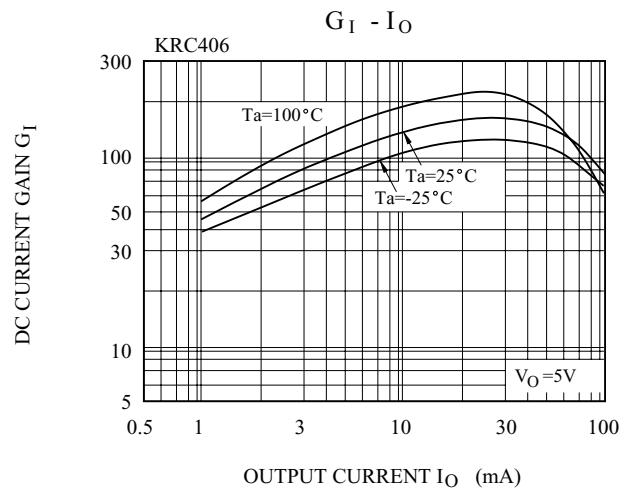
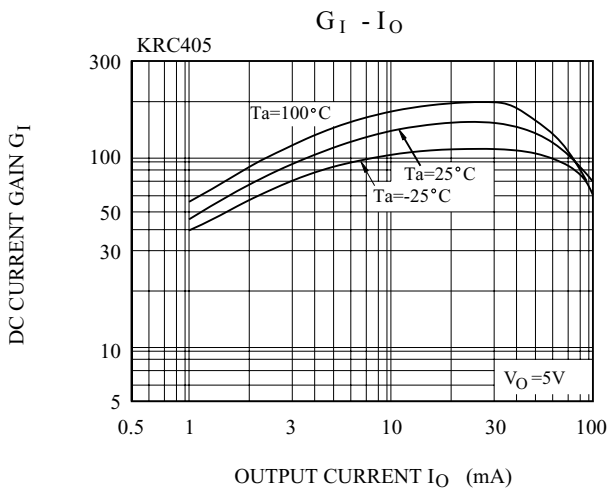
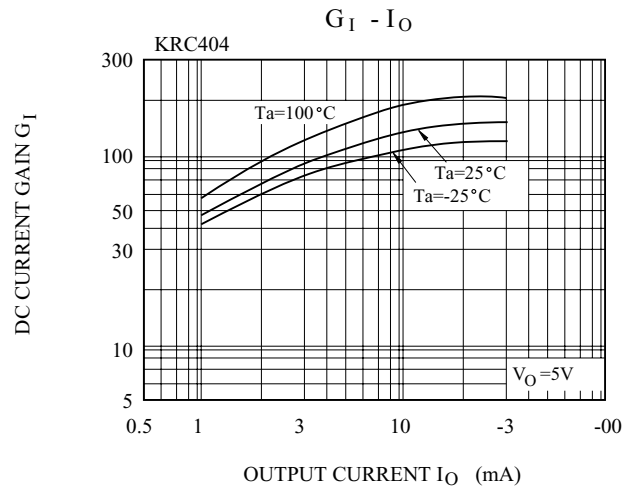
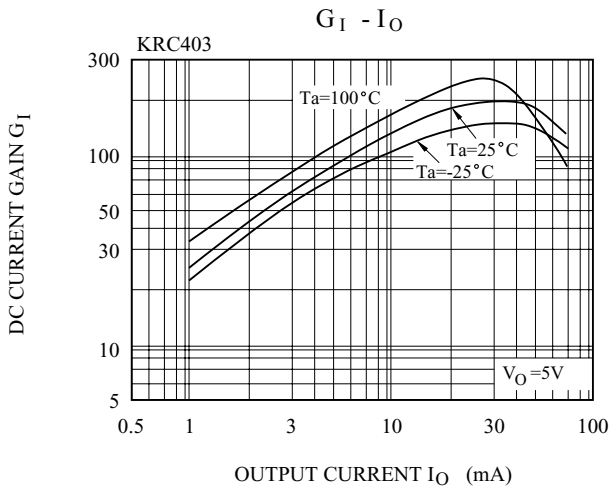
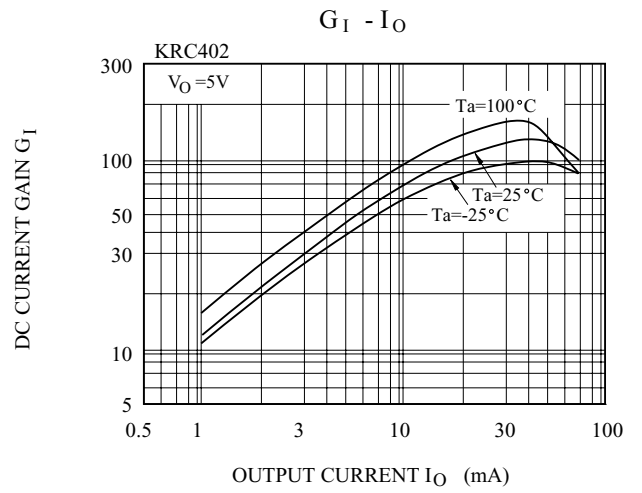
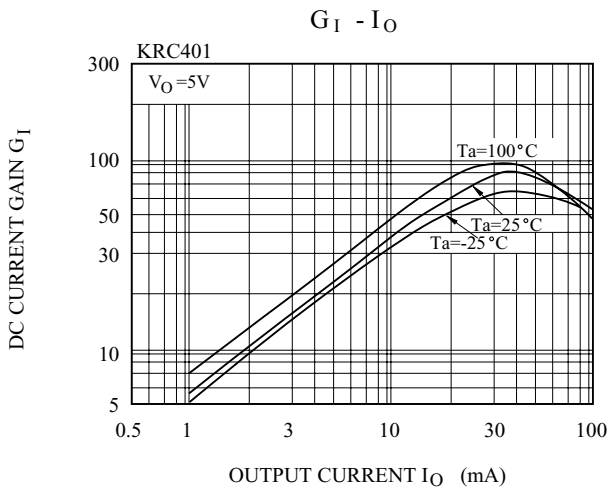
# KRC401~KRC406



# KRC401~KRC406



# KRC401~KRC406



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Bipolar Transistors - Pre-Biased](#) category:*

*Click to view products by [KEC](#) manufacturer:*

Other Similar products are found below :

[RN1607\(TE85L,F\)](#) [DRC9A14E0L](#) [DTA124GKAT146](#) [DTA144WETL](#) [DTA144WKAT146](#) [DTC113EET1G](#) [DTC115TETL](#)  
[DTC115TKAT146](#) [DTC124TETL](#) [DTC144VUAT106](#) [MUN5241T1G](#) [NSBA114TDP6T5G](#) [SMUN5330DW1T1G](#) [SSVMUN5312DW1T2G](#)  
[RN1303\(TE85L,F\)](#) [RN1306\(TE85L,F\)](#) [RN4605\(TE85L,F\)](#) [TTEPROTOTYPE79](#) [EMH15T2R](#) [SMUN2214T3G](#) [SMUN5335DW1T1G](#)  
[NSBC143ZPDP6T5G](#) [NSVMUN5113DW1T3G](#) [SMUN5230DW1T1G](#) [SMUN2214T1G](#) [FMA7AT148](#) [DTC114EUA-TP](#)  
[NSVDTA114EET1G](#) [SMUN5237DW1T1G](#) [SMUN5213DW1T1G](#) [SMUN5114DW1T1G](#) [SMUN2111T1G](#) [DTC124ECA-TP](#)  
[DTC123TM3T5G](#) [DTA114ECA-TP](#) [DTA113EM3T5G](#) [DTC113EM3T5G](#) [NSVMUN5135DW1T1G](#) [NSVMUN2237T1G](#)  
[NSVDTC143ZM3T5G](#) [SMUN5335DW1T2G](#) [SMUN5216DW1T1G](#) [NSVMUN5316DW1T1G](#) [NSVMUN5215DW1T1G](#)  
[NSVMUN5213DW1T3G](#) [NSVMUN2112T1G](#) [NSVIMD10AMT1G](#) [NSVEMC2DXV5T1G](#) [NSVDTC144WET1G](#) [NSVDTC123JET1G](#)