BMR - 0301

BMR-0301 is the low reset type of IC that guarantee to set againmicro **DIMENSIONS** computers or logic systems by detecting the intermittent of fluctuating power supply voltage during normal use or switching on/off of theequipments.

A comparator type of hysteresis transistor developed by KODENSHI is built in the IC.so that BMR - 0301 is very cost effective components. And, BMR-0301 is a super-low consumption electric current system reset IC which has been developed with using high resistance process.

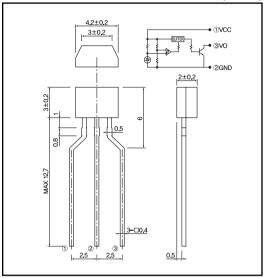
FEATURES

- Super-low current consumption
- Low operation voltage
- High current of output transistor
- Hvsteresis circuit built in
- It has on delay function to supplement the constant of outer C and R

APPLICATIONS

- Micro computer circuits in mobile phones, word processors, TVs, VCRs etc.
- · General logic circuits
- Detection of voltage drop in batteries of note personal computers mobile phones
- Switching to backup power supply

(Unit: mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Supply voltage	Vcc	-0.3~+10.0	V
Power dissipation	P□	200	mW
Operating temp.	Topr.	- 20~ +75	
Storage temp.	Tstg	- 40~ +125	
Soldering temp. 1	Tsol.	260	

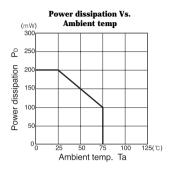
^{*1.5}sec at location of 2mm away from lead bottom.

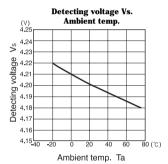
ELECTRO-OPTICAL CHARACTERISTICS

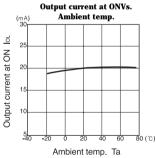
(Vc = 5V, Ta=25)

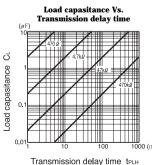
						,	. , ,
I	Item	Symbol	Conditions	Min.	Тур.	Max.	Unit.
Detecting Voltage	BMR - 0301C BMR - 0301D BMR - 0301E BMR - 0301F BMR - 0301G BMR - 0301H BMR - 0301I BMR - 0301J BMR - 0301K BMR - 03 01L	Vs	Rt =470 ,Vcc =H L,Vct 0.4V	4.3 4.0 3.7 3.4 3.1 2.9 2.75 2.55 2.35 2.15	4.5 4.2 3.9 3.6 3.3 3.1 2.9 2.7 2.5 2.3	4.7 4.4 4.1 3.8 3.5 3.3 3.05 2.85 2.65 2.45	V
Hysteresis voltage		Vs	R∟=470 ,Vcc=L H L	40	100	300	mV
Temperature coefficie	ent of detecting voltage	Vs / T	R [⊥] =470 ,Ta=-20 ~75	-	±0.01	-	%/
Low level output voltage		Vol	R∟ = 470 ,Vcc = Vs Min.	-	0.1	0.4	V
Circuit current at ON		CCL	$R_{\perp} = ,V_{CC} = V_{S} Min.$	-	100	180	μA
Circuit current at OFF		Іссн	$R_L = ,V_{CC} = V_S Max + 0.1V$	-	1.0	2.5	Αļ
Threshold operating voltage		Vopl	R _L = 4.7k , Vol. 0.4V	-	1.4	1.6	V
Output current at ON 1		lor 1	R = 0 , $V = V $ Min.	10	20	-	mA
Output current at ON 2		lol 2	R∟=0 ,Ta=-20 ~75	5	-	-	mA
Transmission delay time		t PLH	R₁ = 4.7k , C₁ = 100pF	-	100	500	µsec
Transmission delay time		t PHL	R = 4.7k , $C = 100pF$	-	10	20	μsec

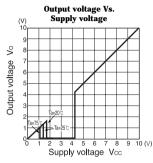
BMR - 0301

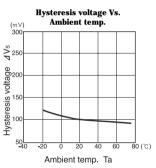


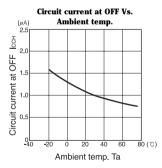


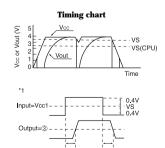


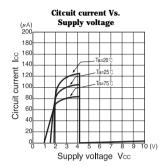


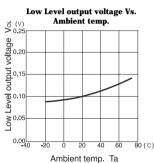


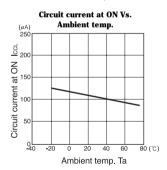














Vcc : V VScpu : Reset threshold voltage of CPU,MPU CL : μ F RL : kQ Caution) It is desirable that Capacitor

Caution) It is desirable that Capacitor be built between

① and ② terminal when high impedence of Voc
line, unstable power line or high ripple occurence
to expected.