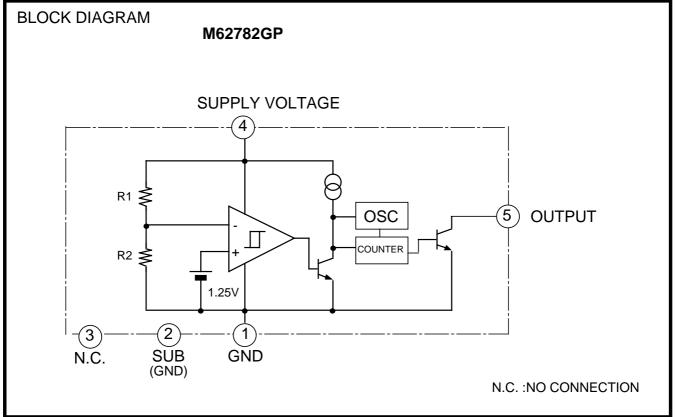
NEW PRODUCT MITSUBISHI <Standard Linear ICs> M62782GP **VOLTAGE DETECTING, SYSTEM RESETTING IC SERIES** The M62782GP is a voltage threshold detector designed for PIN CONFIGURATION (TOP VIEW) 5 OUTPUT GND 1 M62782GP SUB (GND) 2 low-state at low supply voltage) ...0.65V(TYP.) at RL=22k SUPPLY 3 4 N.C. • Wide supply voltage range1.5to 7.0V VOLTAGE • Extra small 5-pin package (5-pin SOP)SOT-25 **Outline SOT-25** • Built-in long delay time 100 ms APPLICATION

- Reset pulse generation for almost all logic circuits
- Battery checking, level detecting, waveform shaping circuits
- Delayed waveform generator
- Switching circuit to a back-up power supply
- DC/DC converter
- Over voltage protection circuit

RECOMMENDED OPERATING CONDITION

• Supply voltage range 1.5to 7.0V



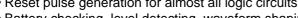
GENERAL DESCRIPTION

detection of a supply voltage and generation of a system reset pulse for almost all logic circuits such as microprocessor.

It also has extensive applications including battery checking, level detecting and waveform shaping circuits.

FEATURES

- Few external parts
- · Low threshold operating voltage (Supply voltage to keep
- Sudden change in power supply has minimal effect on the ICs
- Wide application range

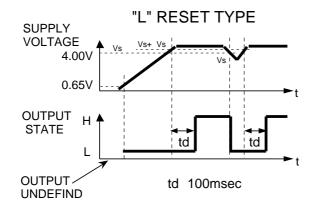


N.C. :NO CONNECTION

M62782GP

VOLTAGE DETECTING, SYSTEM RESETTING IC SERIES

FUNCTION DIAGRAM



ABSOLUTE MAXINUM RATINGS (Ta=25°C Unless otherwise noted)

Symbol	Parameter	Test condition	Ratings	Unit
Vcc	Supply Voltage		8	V
Isink	Output Sink Current		6	mA
Vo	Output Voltage	Output with open collector	8	V
Pd	Power Dissipation	3pin SOP(SOT-23)	200	mW
КΘ	Thermal Derating	Ta 25°C	2	mW/ °C
Topr	Operating Temperature		-30 to +85	°C
Tstg	Storage Temperature		-40 to +125	°C

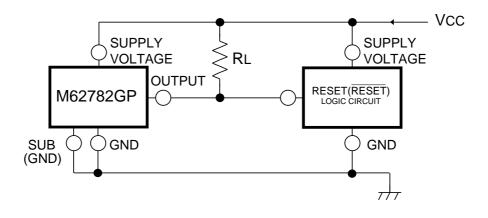
ELECTRICAL CHARACTERISTICS (Ta=25°C, Unless otherwise noted)

Symbol	Parameter	Test condition			Limits		
Symbol	Falamelei			MIN	TYP	MAX	- Unit
Vs	Detecting Voltage			3.84	4.00	4.16	V
Vs	Hysterisis Voltage			50	80	110	mV
Vs/ T	Detecting Voltage				0.01		0//00
	Temperature Coefficient			0.01		%/ °C	
Icc	Circut Current	VCC=5V		400	600	μA	
Vsat	Output Saturation Voltage			0.2	0.4	V	
Vopl	Threshold	Minimum supply voltage for IC operation	R∟=2.2k ,Vsat 0.4\	/	0.7	0.8	- v
	Operating Voltage		R∟=100k ,Vsat 0.4	/	0.6	0.7	
Іон	Output Leak Current					30	nA
		Ta= - 30 to + 85 °C				1	μA
tPD	Deray Time			60	100	140	ms

M62782GP

VOLTAGE DETECTING, SYSTEM RESETTING IC SERIES

Example of application circuit Reset Circuit of M62782GP



Note 1.

The logic circuit preferably should not have a pull-down resistor,but if one is present,add load resistor RL to overcome the pull-down resistor.

Mitsubishi Electric Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury,fire or property damage.Remember to give due consideration to safety when making your circuit design,in order to prevent fires from spreading,redundancy,malfunction or other mishap.

MITSUBISHI <Standard Linear ICs>

M62782GP

VOLTAGE DETECTING, SYSTEM RESETTING IC SERIES

PACKCAGE OUTLINE

SOT-25

Dimension : mm

