

SANYO	No.3263	LB1105M
	6-Channel × 4-Unit Diode Array	

The LB1105M is a diode array IC that integrates 4 units of 6-channel diode array with anode-common configuration. It is especially suited for keyboard-use diode matrix, OR gate applications. Replacement of individual diodes with the LB1105M implements higher mounting density.

Applications

- Keyboard-use diode matrixes, OR gates

Functions

- Anode-common 6-diode array (4-unit organization)

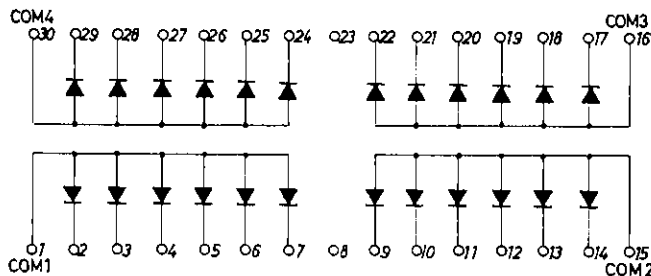
Absolute Maximum Ratings at Ta = 25°C

Reverse Voltage	V_R		15	V	unit
Average Forward Current	I_F	Each diode	5	mA	
Surge Forward Current	I_{FS}	1 s or less	50	mA	
Allowable Power Dissipation	$P_d \text{ max}$		800	mW	
Operating Temperature	T_{opr}		-20 to +75	°C	
Storage Temperature	T_{stg}		-40 to +125	°C	

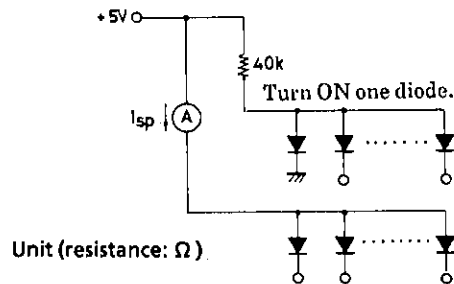
Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Forward Voltage	V_F	$I_F = 0.7 \text{ mA}$ (each diode)			0.9	V
Reverse Current	I_R	$V_R = -15 \text{ V}$ (each diode)	0.5			μA
Channel Separation 1	I_{sp1}	See specified Test Circuit (between units).			3.0	μA
Channel Separation 2	I_{sp2}				3.0	μA
Channel Separation 3	I_{sp3}				3.0	μA
Channel Separation 4	I_{sp4}				3.0	μA

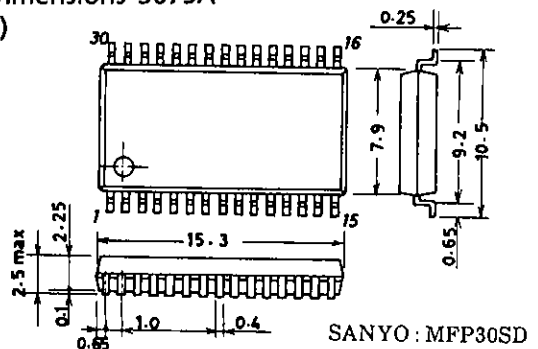
Equivalent Circuit and Pin Assignment



Channel Separation Test Circuit



Package Dimensions 3073A
(unit : mm)



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