

<b>SANYO</b>	No.3263	<b>LB1105M</b>
		Monolithic Digital IC

## 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)

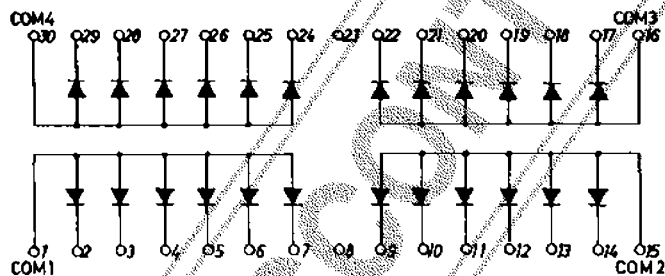
### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Condition	Value	Unit
Reverse Voltage	$V_R$		15	V
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	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-40 to +125	$^\circ\text{C}$

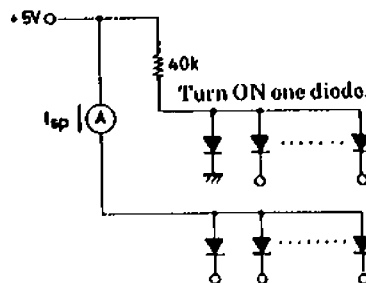
### Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Condition	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			$\mu\text{A}$
Channel Separation 1	$I_{sp1}$	[See specified Test Circuit (between units).]			3.0	$\mu\text{A}$
Channel Separation 2	$I_{sp2}$				3.0	$\mu\text{A}$
Channel Separation 3	$I_{sp3}$				3.0	$\mu\text{A}$
Channel Separation 4	$I_{sp4}$				3.0	$\mu\text{A}$

### Equivalent Circuit and Pin Assignment



### Channel Separation Test Circuit



### Package Dimensions 3073A (unit: mm)

