

<b>SANYO</b>	No.3263	Monolithic Digital IC
		<b>LB1105M</b>
<b>6-Channel × 4-Unit Diode Array</b>		

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)

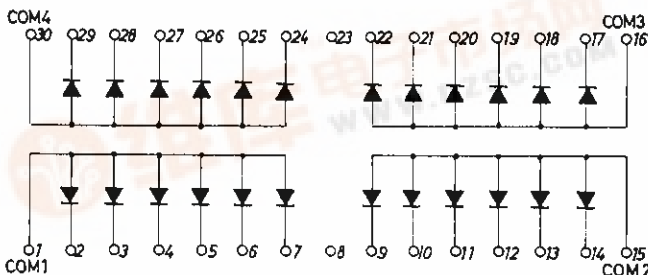
**Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	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	$P_{d max}$	800 mW
Operating Temperature	$T_{opr}$	-20 to +75 °C
Storage Temperature	$T_{stg}$	-40 to +125 °C

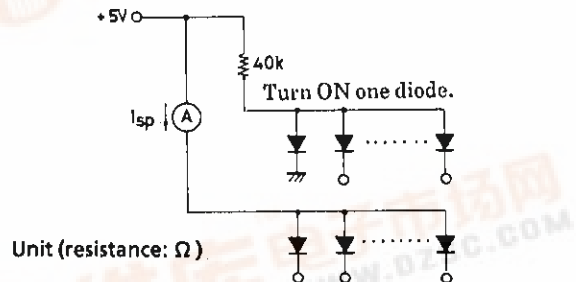
**Electrical Characteristics at Ta = 25°C**

Parameter	Symbol	Test 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**

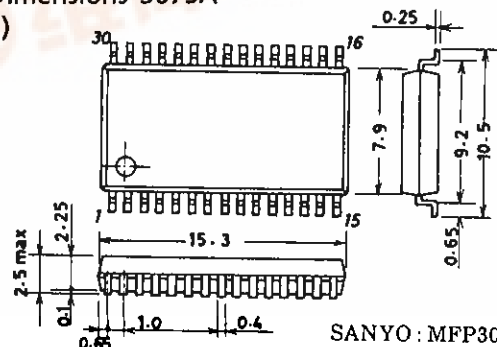


**Channel Separation Test Circuit**



**Package Dimensions 3073A**

(unit : mm)



SANYO : MFP30SD



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