Ordering number : EN 3263

SANYO No.3263

LB1105M

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)

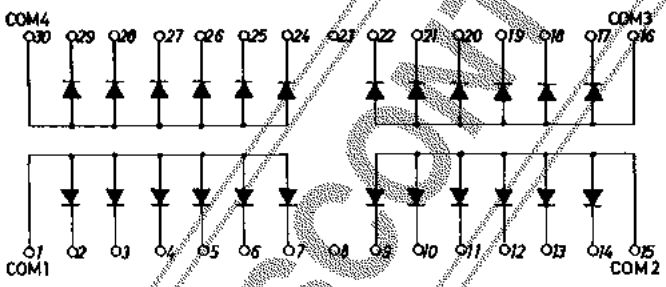
Absolute Maximum Ratings at Ta = 25°C

				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	Pd max		800	mW
Operating Temperature	Topr		−20 to +75	°C
Storage Temperature	Tstg		−40 to +125	°C

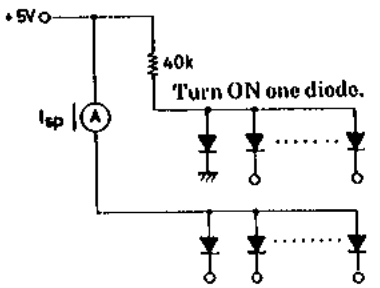
Electrical Characteristics at Ta = 25°C

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

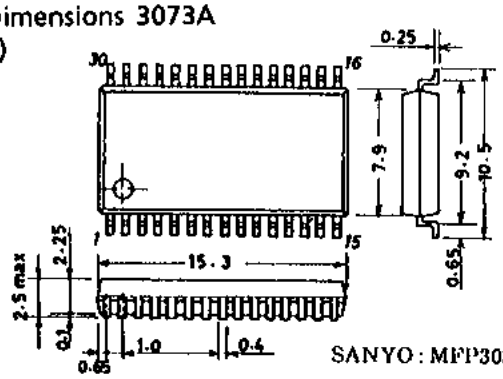
Equivalent Circuit and Pin Assignment



Channel Separation Test Circuit



Package Dimensions 3073A
(unit : mm)



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