

**LB1213M****General-Purpose Transistor Array****Overview**

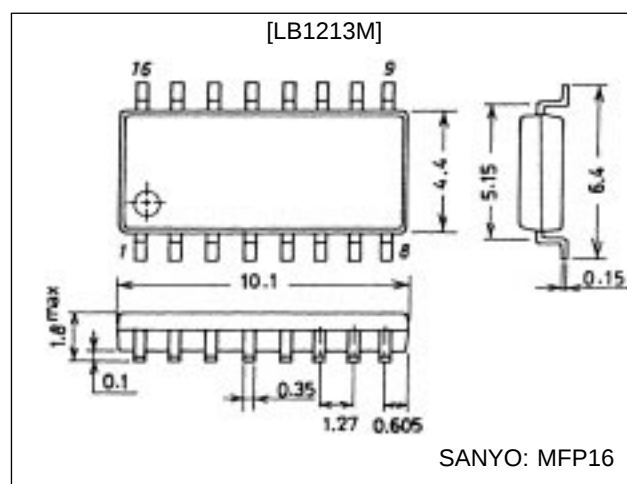
The LB1213M is a general-purpose transistor array containing 7 channels. It is especially suited for driving LEDs, lamps, small-sized relays, etc.

Features

- Common-emitter 7 channels.
- Built-in base current limiting resistors.
- Capable of being direct driven with TTL, CMOS, PMOS, etc.
- Wide operating voltage and temperature ranges
- Miniflat package permitting sets to be small-sized.

Package Dimensions

unit : mm

3035A-MFP16**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Rating	Unit
Output supply voltage	V_{OUT}		20	V
Output current	I_{OUT}	Per unit	100	mA
Input supply voltage	V_{IN}		10	V
Allowable power dissipation	$P_d \text{ max}$		330	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	Conditions	min	typ	max	Unit
Output voltage	$V_{OUT 1}$	$V_{IN} = 5 \text{ V}, I_{OUT} = 5 \text{ mA}$			0.1	V
	$V_{OUT 2}$	$V_{IN} = 5 \text{ V}, I_{OUT} = 50 \text{ mA}$			0.5	V
Input current	I_{IN}	$I_{IN} = 5 \text{ V}$		1.6	2.3	mA
Output sustain voltage	$V_{O(SUS)}$	$I_{OUT} = 50 \text{ mA}$	20			V
Output leakage current	I_{OFF}	$V_{IN} = 0 \text{ V}, V_{OUT} = 20 \text{ V}$			10	μA
DC current amplification factor	h_{FE}	$V_{OUT} = 10 \text{ V}, I_{OUT} = 2 \text{ mA}$	50		500	

