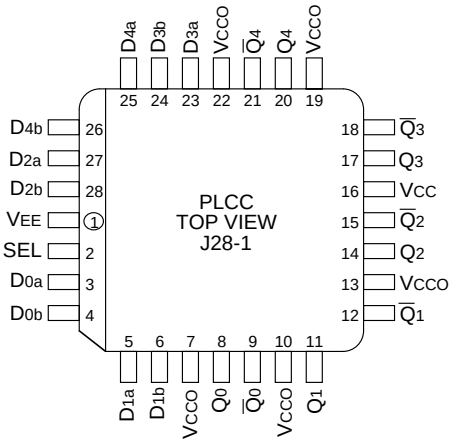
PACKAGE/ORDERING INFORMATION



28-Pin PLCC (J28-1)

Ordering Information[1]

Part Number	Package Type	Operating Range	Package Marking	Lead Finish
SY10E158JC	J28-1	Commercial	SY10E158JC	Sn-Pb
SY10E158JCTR[2]	J28-1	Commercial	SY10E158JC	Sn-Pb
SY100E158JC	J28-1	Commercial	SY100E158JC	Sn-Pb
SY100E158JCTR[2]	J28-1	Commercial	SY100E158JC	Sn-Pb
SY10E158JZ[3]	J28-1	Commercial	SY10E158JZ with Pb-Free bar-line indicator	Matte-Sn
SY10E158JZTR[2, 3]	J28-1	Commercial	SY10E158JZ with Pb-Free bar-line indicator	Matte-Sn
SY100E158JZ[3]	J28-1	Commercial	SY100E158JZ with Pb-Free bar-line indicator	Matte-Sn
SY100E158JZTR[2, 3]	J28-1	Commercial	SY100E158JZ with Pb-Free bar-line indicator	Matte-Sn

Notes:

1. Contact factory for die availability. Dice are guaranteed at T_A = 25°C, DC Electricals only.
2. Tape and Reel.
3. Pb-Free package is recommended for new designs.

TRUTH TABLE

SEL	Data
H	a
L	b

DC ELECTRICAL CHARACTERISTICS

V_{EE} = V_{EE} (Min.) to V_{EE} (Max.); V_{CC} = V_{CCO} = GND

Symbol	Parameter	T_A = 0°C			T_A = +25°C			T_A = +85°C			Unit	Condition
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.		
I_{IH}	Input HIGH Current										µA	—
	D	—	—	200	—	—	200	—	—	200		
	SEL	—	—	150	—	—	150	—	—	150		
I_{EE}	Power Supply Current										mA	—
	10E	—	33	40	—	33	40	—	33	40		
	100E	—	33	40	—	33	40	—	38	46		

AC ELECTRICAL CHARACTERISTICS

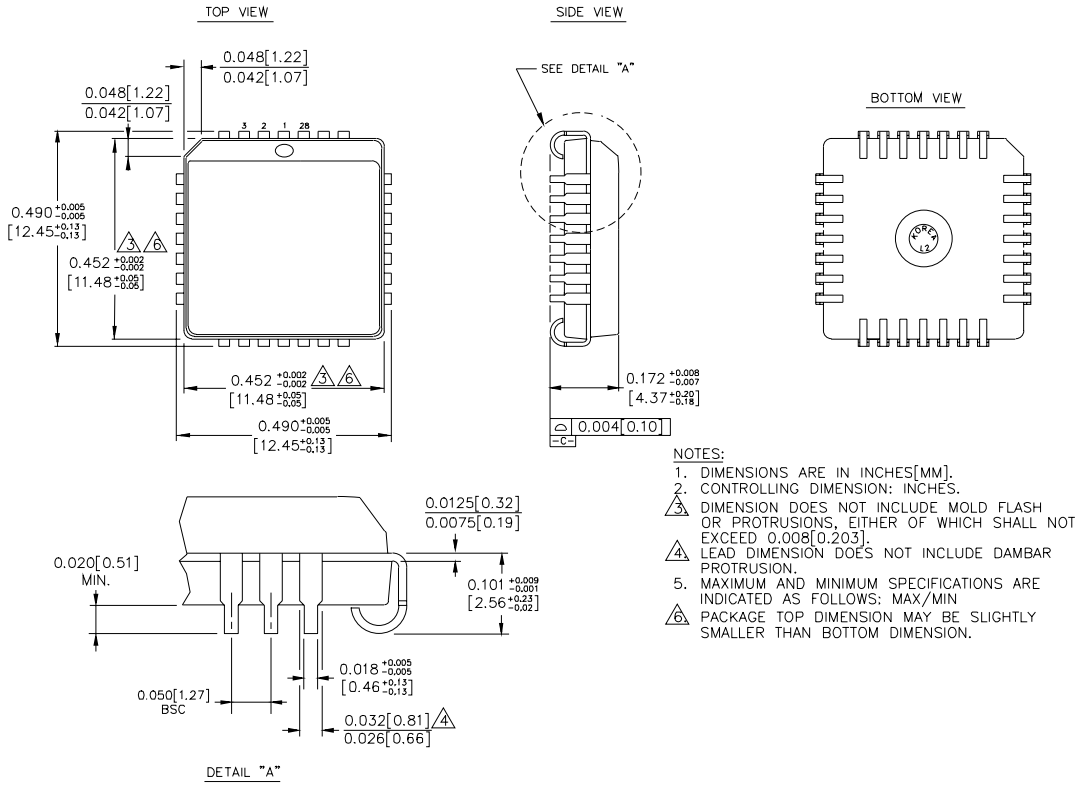
V_{EE} = V_{EE} (Min.) to V_{EE} (Max.); V_{CC} = V_{CCO} = GND

Symbol	Parameter	T_A = 0°C			T_A = +25°C			T_A = +85°C			Unit	Condition
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.		
t_{PD}	Propagation Delay to Output										ps	—
	D	225	385	550	225	385	550	225	385	550		
	SEL	400	600	775	400	600	775	400	600	775		
t_{skew}	Within-Device Skew	—	60	—	—	60	—	—	60	—	ps	1
t_r t_f	Rise/Fall Time 20% to 80%	275	425	650	275	425	650	275	425	650	ps	—

Note:

1. Within-device skew is defined as identical transitions on similar paths through a device.

28-PIN PLCC (J28-1)



NOTES:
1. DIMENSIONS ARE IN INCHES[MM].
2. CONTROLLING DIMENSION: INCHES.
3. DIMENSION DOES NOT INCLUDE MOLD FLASH OR PROTRUSIONS, EITHER OF WHICH SHALL NOT EXCEED 0.008[0.203].
4. LEAD DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION.
5. MAXIMUM AND MINIMUM SPECIFICATIONS ARE INDICATED AS FOLLOWS: MAX/MIN
6. PACKAGE TOP DIMENSION MAY BE SLIGHTLY SMALLER THAN BOTTOM DIMENSION.

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