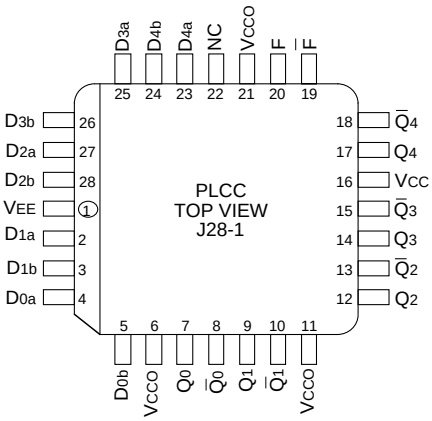
PACKAGE/ORDERING INFORMATION



28-Pin PLCC (J28-1)

Ordering Information[1]

Part Number	Package Type	Operating Range	Package Marking	Lead Finish
SY10E107JC	J28-1	Commercial	SY10E107JC	Sn-Pb
SY10E107JCTR[2]	J28-1	Commercial	SY10E107JC	Sn-Pb
SY100E107JC	J28-1	Commercial	SY100E107JC	Sn-Pb
SY100E107JCTR[2]	J28-1	Commercial	SY100E107JC	Sn-Pb
SY10E107JZ[3]	J28-1	Commercial	SY10E107JZ with Pb-Free bar-line indicator	Matte-Sn
SY10E107JZTR[2, 3]	J28-1	Commercial	SY10E107JZ with Pb-Free bar-line indicator	Matte-Sn
SY100E107JZ[3]	J28-1	Commercial	SY100E107JZ with Pb-Free bar-line indicator	Matte-Sn
SY100E107JZTR[2, 3]	J28-1	Commercial	SY100E107JZ 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.

LOGIC EQUATION

$F = (D_{0a} \oplus D_{0b}) + (D_{1a} \oplus D_{1b}) + (D_{2a} \oplus D_{2b}) + (D_{3a} \oplus D_{3b}) + (D_{4a} \oplus D_{4b})$
$F = Q_0 + Q_1 + Q_2 + Q_3 + Q_4$

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.	Mlin.	Typ.	Max.	Min.	Typ.	Max.		
I_{IH}	Input HIGH Current	—	—	200	—	—	200	—	—	200	µA	—
I_{EE}	Power Supply Current										mA	—
	10E	—	42	50	—	42	50	—	42	50		
	100E	—	42	50	—	42	50	—	48	58		

AC ELECTRICAL CHARACTERISTICS

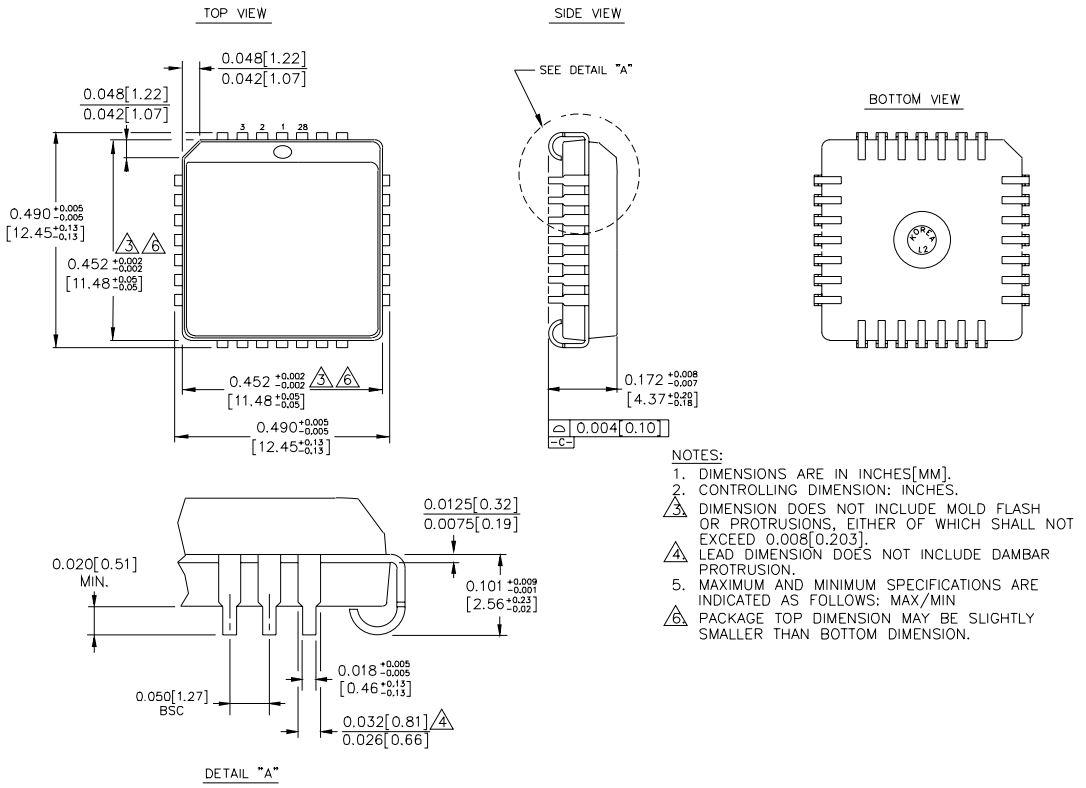
$V_{EE} = V_{EE}$ (Min.) to V_{EE} (Max.); $V_{CC} = V_{CCO}$ = GND

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 to Q	250	410	600	250	410	600	250	410	600		
	D to F	500	725	1000	500	725	1000	500	725	1000		
t_{skew}	Within-Device Skew, D to Q	—	75	—	—	75	—	—	75	—	ps	1
t_r	Rise/Fall Time										ps	—
t_f	20% to 80% Q	275	450	700	275	450	700	275	450	700		
	F	300	475	700	300	475	700	300	475	700		

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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