

IN82C54

PROGRAMMABLE TIMER

LSI of programmable ASIC timer provides operation of three independent counters in six modes. Synchronous control method with minimum period of tact impulses sequence is used in circuit $T_c=200$ ns. Circuit is implemented in 239.24-1 package.

Parameter indication, measurements unit	Letter symbol	Measurement mode	Rate		Temperature
			не менее	no more	
Output voltage of high level, V	U_{OH}	$U_{CC} = 4,5V$ $I_{OH} = -0,4mA$ $U_{IH} = U_{CC} - 0,8V$ $U_{IL} = 0,8 V$	$U_{CC} - 0,41$	C	-10 - +70°C
Output voltage of low level, V	U_{OL}	$U_{CC} = 4,5 V$ $I_{OL} = 3,2mA$ $U_{IH} = U_{CC} - 0,8 V$ $U_{IL} = 0,8 V$	-	0,4	
Input current, mkA	I_I	$U_{CC} = 5,5 V$ $U_{IH} = 5,5 V$ $U_{IL} = 0V$	-	-2,0	
Consumption current in static mode, mkA Input current of low level в состоянии "выключено", mkA	I_{CC}	$U_{CC} = 5,5V$, $U_{II} = 0V$ $U_{IH} = 5,5V$, $U_{CC} = 5,5V$ $U_{OL} = 0,8 V$	-	10	
Output current of high level в состоянии "выключено", мкА	I_{OZL}	$U_{CC} = 5,5 V$ $U_{OH} = U_{CC} - 0,8 V$	-	-	
Sequence period of tact signal impulses, ns	T_{CY}	$U_{CC} = 5,5 V$	-	125	

Parameter name measurement unit	Letter symbol	Limit mode rate	
Supply voltage, V	U_{CC}	-0,3	6 (7 within 5ms)
Input voltage of high level, V	U_{IH}	-	6
Input voltage of low level, V	U_{IL}	-0,3	-
Output current of high level, mA	I_{OH}	-	-
Output current of low level, mA	I_{OL}	-	-
Tact signal impulses sequence frequencies, MHz: - for timer - for direct memory access block	F_C	-	-



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