

(810180194)

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DAC

:

DAC

:

DAC A 0 , 255 PORT A
DAC

:

PORT A	Data	DAC A	PORT A	Data	:
		Data	CLRCTRL	.	

:

\$MODID51

\$IC(MACROS51)

```
SELECT    PORTA
CLRCTRL  2
MOV  R1, #128
MOV  DAT, R1
CLRCTRL  3
MOV  DAT, R1
```

AGAIN:

 SJMP AGAIN

END

```

:
DAC A
R2                                2 0
R2
DPTR                                A                                DPTR

:

$MODID51
$IC(MACROS51)

    SELECT    PORTA
    CLRCTRL   2
    MOV  R1,#0
    MOV  DAT, R1
    CLRCTRL   3

    MOV  DPTR, #Table

AGAIN:

    MOV  R2, #1
DEL1: DELAY    1
    DJNZ R2, DEL1

    MOV  A,#0
    MOVMEM      A, @A+DPTR
    MOV  R1, A

    MOV  DAT, A

    CJNE R1,#105, NEXT
    MOV  DPTR, #Table
    SJMP AGAIN1
NEXT:
    INC  DPTR

AGAIN1:
    SJMP AGAIN
;-----

```

Table:

DB128,150,171,191,209,225,238,247,253,255,253,247,238,225,209,191,171,150,128,106,85,65,47,31,18,9,3,1,3,9,18,31,47,65,85,105

END

:

Cycle

Duty Cycle

Duty Cycle

Duty Cycle = 1 / 30

\$MODID51

\$IC(MACROS51)

SELECT PORTA

CLRCTRL 2

MOV R1, #0

MOV DAT, R1

CLRCTRL 3

MOV DPTR, #Table

MOV R2, #1

AGAIN:

MOV A, R2

MOV R3, A

DEL1: DELAY 1

DJNZ R3, DEL1

MOV A, #0

MOVMEM A, @A+DPTR

MOV R1, A

MOV DAT, A

CJNE R1, #127, L1

```
MOV R2, #30
```

```
L1: CJNE R1, #126, NEXT  
    MOV DPTR, #Table
```

```
MOV R2, #1
```

```
SJMP AGAIN1
```

```
NEXT:
```

```
INC DPTR
```

```
AGAIN1: SJMP AGAIN
```

```
;-----
```

```
Table: DB
```

```
128,150,171,191,209,225,238,247,253,255,25  
3,247,238,225,209,191,171,150,127,106,85,65,47,  
31,18,9,3,1,3,9,18,31,47,65,85,105,126
```

```
END
```