

Digital Transistors

查询UM5 FMT

7828999 0007383 486 RHM

捷多邦 专业PCB打样 24小时加急出

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Two transistors with built-in resistors (digital transistors) are packed into UM5 and FMT type packages. Being wired internally they require minimum space.

UM5 · FMT (5 pin type including 2 circuits)

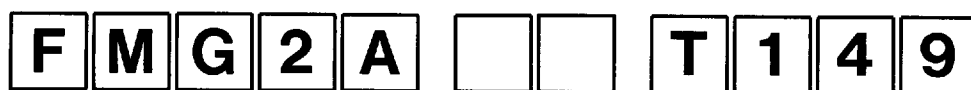
●Built-in 2 resistors

Equivalent circuit		Application	Package		Equivalent product	Resistance value		V _{cc} (V)	I _o (mA)	G _I	V _o (V)	I _o (mA)
TOP VIEW			UM5	FMT		R ₁ (k Ω)	R ₂ (k Ω)					
UM5	FMT		Part No.									
		Inverter Driver	UMA1	FMA1A	DTA124EK $\times$ 2	22	22	-50	-30	56 $\sim$	-5	-5
			UMA2	FMA2A	DTA144EK $\times$ 2	47	47	-50	-30	68 $\sim$	-5	-5
			UMA5	FMA5A	DTA123JK $\times$ 2	2.2	47	-50	-100	80 $\sim$	-5	-10
			UMA7	FMA7A	DTA143XK $\times$ 2	4.7	10	-50	-100	30 $\sim$	-5	-10
			UMA8	FMA8A	DTA114YK $\times$ 2	10	47	-50	-100	68 $\sim$	-5	-5
			UMA9	FMA9A	DTA114EK $\times$ 2	10	10	-50	-50	30 $\sim$	-5	-5
			UMA10	FMA10A	DTA113ZK $\times$ 2	1.0	10	-50	-100	33 $\sim$	-5	-5
			UMA11	FMA11A	DTA143ZK $\times$ 2	4.7	47	-50	-100	80 $\sim$	-5	-10
			UMG1	FMG1A	DTC124EK $\times$ 2	22	22	50	30	56 $\sim$	5	5
			UMG2	FMG2A	DTC144EK $\times$ 2	47	47	50	30	68 $\sim$	5	5
			UMG5	FMG5A	DTC114YK $\times$ 2	10	47	50	70	68 $\sim$	5	5
			UMG8	FMG8A	DTC143ZK $\times$ 2	4.7	47	50	100	80 $\sim$	5	10
			UMG9	FMG9A	DTC114EK $\times$ 2	10	10	50	50	30 $\sim$	5	5
			UMG10	—	DTC113ZK $\times$ 2	1	10	50	100	33 $\sim$	5	5
			UMG11	FMG11A	DTC123JK $\times$ 2	2.2	47	50	100	80 $\sim$	5	10
				—	FMJ1A	DTA144EK	47	47	-50	-30	68 $\sim$	-5
					DA119	Diode characteristics V _R =80V, I _o =100mA C _T =3.5pF, t _{rr} =4.0ns						
		Switching Circuit	UMC2	FMC2A	DTA124EK DTC124EK	22 22	22 22	-50 50	-30 30	56 $\sim$ 56 $\sim$	-5 5	-5 5
			UMC3	FMC3A	DTA114EK DTC114EK	10 10	10 10	-50 50	-50 50	30 $\sim$ 30 $\sim$	-5 5	-5 5
			UMC4	FMC4A	DTA114YK DTC144EK	10 47	47 47	-50 50	-70 30	68 $\sim$ 68 $\sim$	-5 5	-5 5
			UMC5	FMC5A	DTA143XK DTC144EK	4.7 47	10 47	-50 50	-100 30	30 $\sim$ 68 $\sim$	-5 5	-5 5
			—	FMC6A	DTA115EK DTC115EK	100 100	100 100	-50 50	-20 20	82 $\sim$ 82 $\sim$	-5 5	-5 5

●Built-in 1 resistor

Equivalent circuit TOP VIEW		Application	Package		Equivalent product	Resistance value		V _{CEO} (V)	I _c (mA)	h _{FE}	h _{FE}	
UM5	FMT		UM5	FMT		R ₁ (kΩ)	R ₂ (kΩ)				V _{CE} (V)	I _c (mA)
Part No.												
		Inverter Driver	UMA3	FMA3A	DTA143TK × 2	4.7	—	50	100	100~600	5	1
			UMA4	FMA4A	DTA114TK × 2	10	—	50	100	100~600	5	1
			UMA6	FMA6A	DTA144TK × 2	47	—	50	100	100~600	5	1
			UMG3	FMG3A	DTC143TK × 2	4.7	50	100	100~600	5	1	
			UMG4	FMG4A	DTC114TK × 2	10	50	100	100~600	5	1	
			UMG6	FMG6A	DTC144TK × 2	47	50	100	100~600	5	1	
			UMG7	FMG7A	DTC114TK × 2	10	50	100	100~600	5	1	
		Switching Circuit	UMC1	FMC1A	DTA143TK	4.7	—	50	100	100~600	5	1
					DTC143TK	4.7	50	100	100~600	5	1	
		Pre Amp (6dB Amp)	—	FMQ1A	2SA1037AK	R ₁ (Ω)	R ₂ (Ω)	—	50	120~560	6	1
					470	470						

Specify part No., packaging specification code and h_{FE} ranking code.



Packaging specification code

Package	UM5	FMT
Code	TL	T149
	TR	T148

(Unit : mm)

Package	UM5	FMT (SOT-25)
Dimensions	Top view dimensions: 2.0 ± 0.2, 1.3 ± 0.1, 0.65, 0.65, 0.25 ± 0.1, 2.1 ± 0.1, 0.2 ± 0.05. Lead dimensions: 0.9 ± 0.1, 0.7, 0 ~ 0.1, 0.15 ± 0.05, 0.1 Min. Each lead has same dimensions	Top view dimensions: 2.9 ± 0.2, 1.9 ± 0.2, 0.95, 0.95, 1.6 ± 0.2, 2.8 ± 0.2, 0.3 ± 0.1, 0.05. Lead dimensions: 1.1 ± 0.2, 0.8 ± 0.1, 0 ~ 0.1, 0.15 ± 0.1, 0.06, 0.3 ~ 0.6. Each lead has same dimensions
Actual size		
Enlarged (×3.0)		

Package	Packaging type	Packaging style	Direction	Code	Quantity /Package (pcs)	Quantity /Unit (pcs)
UM5	Taping	Embossed reel tape	Pin 2 side on sprocket hole side*	TL	3,000	—
			Pin 2 side on sprocket hole side	TR		
FMT	Taping	Embossed reel tape	Pin 3 side on sprocket hole side	T148	3,000	—
			Pin 2 side on sprocket hole side	T149		

(Unit : mm)

The figure shows the mechanical drawing of the UM5 FMT package. It includes a top view, a side view, and a detail view of the package profile.

- Top View:** Shows a circular package with a diameter of $\phi 13.5 \pm 0.5$ mm. The mounting pads have a diameter of $\phi 50.0$ mm (minimum) and $\phi 178.0 \pm 2.0$ mm. The distance between the mounting pads is 10.0 ± 1.5 mm.
- Side View:** Shows the package height with dimensions: 2.0 mm, 10.0 ± 1.5 mm, and 0.3 ± 0.1 mm.
- Detail View:** Shows the package profile with dimensions: 2.0 ± 0.05 mm, 4.0 ± 0.1 mm, 4.0 ± 0.1 mm, 1.5 ± 0.1 mm, 1.75 ± 0.1 mm, 5.5 ± 0.2 mm, 3.5 ± 0.05 mm, 8.0 ± 0.2 mm, and $0 \sim 0.5$ mm. The package is labeled with Pin 1 (FMT) and Pin 1 (UM5).