

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

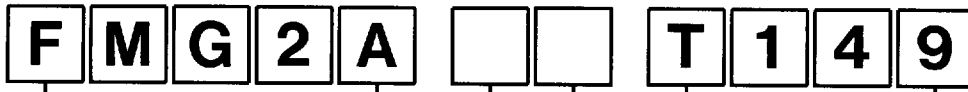
Equivalent circuit		Application	Package		Equivalent product	Resistance value		V _{CC} (V)	I _o (mA)	G _i	V _o (V)	I _o (mA)
TOP VIEW			UM5	FMT		R ₁ (kΩ)	R ₂ (kΩ)					
UM5	FMT		Part No.									
		Inverter Driver	UMA1	FMA1A	DTA124EK × 2	22	22	-50	-30	56~	-5	-5
			UMA2	FMA2A	DTA144EK × 2	47	47	-50	-30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

●Built-in 1 resistor

Equivalent circuit		Application	Package		Equivalent product	Resistance value		V _{CE0} (V)	I _c (mA)	h _{FE}	V _{CE} (V)	I _c (mA)
TOP VIEW			UM5	FMT		R ₁ (kΩ)	R ₂ (kΩ)					
UM5	FMT		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	
		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)	-20	-50	120~560	-6	-1
			2SC2412K	470	470	20	30	120~560	6	1		

●Product Designation

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



Part No.

Blank unless otherwise required

Packaging specification code

Package	UM5	FMT
Code	TL	T149
	TR	T148

Package	UM5	FMT (SOT-25)
Dimensions	<p>Each lead has same dimensions</p>	<p>Each lead has same dimensions</p>
	Actual size	Actual size
	Enlarged (×3.0)	Enlarged (×3.0)

●Packaging

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		

●Packaging Specifications

UM5	FMT																												
<p>Reel</p>	<p>Tape</p>																												
	<table border="1"> <thead> <tr> <th>Package</th> <th>Code</th> <th>Package</th> <th>Code</th> <th colspan="3">Size</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>UM5</td> <td>TL</td> <td>UM5</td> <td>TR</td> <td>2.2±0.1</td> <td>2.4±0.1</td> <td>1.15±0.1</td> </tr> <tr> <td>FMT</td> <td>T149</td> <td>FMT</td> <td>T148</td> <td>3.1±0.1</td> <td>3.2±0.1</td> <td>1.35±0.1</td> </tr> </tbody> </table>	Package	Code	Package	Code	Size							A	B	C	UM5	TL	UM5	TR	2.2±0.1	2.4±0.1	1.15±0.1	FMT	T149	FMT	T148	3.1±0.1	3.2±0.1	1.35±0.1
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				A	B	C																							
UM5	TL	UM5	TR	2.2±0.1	2.4±0.1	1.15±0.1																							
FMT	T149	FMT	T148	3.1±0.1	3.2±0.1	1.35±0.1																							