

7 Digital Transistors <Surface Mounted Types>

7828999 0007746 132 RHM

(5 pin type including 2 circuits)

Two transistors with built-in resistors (digital transistors) are packed into 2125 and 2916 type packages. Being wired internally they require minimum space.

■ UM5 · FMT

● Built-in 2 resistors

Equivalent circuit TOP VIEW	Application	Package		Equivalent product	Resistance value		V _{CC} (V)	I _o (mA)	G _i	Vo (V)		I _o (mA)	
		UM5	FMT		R ₁ (kΩ)	R ₂ (kΩ)				Vo (V)	I _o (mA)		
		Type											
	Inverter Driver	UMA1	FMA1	DTA124EK × 2	22	22	-50	-30	56~	-5	-5		
		UMA2	FMA2	DTA144EK × 2	47	47	-50	-30	68~	-5	-5		
		UMA5	FMA5	DTA123JK × 2	2.2	47	-50	-100	80~	-5	-10		
		UMA7	FMA7	DTA143XK × 2	4.7	10	-50	-100	30~	-5	-10		
		UMA8	FMA8	DTA114YK × 2	10	47	-50	-100	68~	-5	-5		
		UMA9	FMA9	DTA114EK × 2	10	10	-50	-50	30~	-5	-5		
		UMA10	FMA10	DTA113ZK × 2	1.0	10	-50	-100	33~	-5	-5		
		UMA11	FMA11	DTA143ZK × 2	4.7	47	-50	30	80~	-5	-10		
		UMG1	FMG1	DTC124EK × 2	22	22	50	30	56~	5	5		
		UMG2	FMG2	DTC144EK × 2	47	47	50	30	68~	5	5		
		UMG5	FMG5	DTC114YK × 2	10	47	50	70	68~	5	5		
UMG8	FMG8	DTC143ZK × 2	4.7	47	50	30	80~	5	10				
UMG9	FMG9	DTC114EK × 2	10	10	50	50	30~	5	5				
UMG11	FMG11	DTC123JK × 2	2.2	47	50	100	80~	5	10				
-	FMJ1	DTA144EK	47	47	-50	-30	68~	-5	-5	V _R =80V, I _o =100mA C _T =3.5pF, t _r =4.0ns			
-	-	DA119	Diode characteristics										
	Switching Circuit	UMC2	FMC2	DTA124EK DTC124EK	22 22	22 22	-50 50	-30 30	56~ 56~	-5 5	-5 5		
		UMC3	FMC3	DTA114EK DTC114EK	10 10	10 10	-50 50	-50 50	30~ 30~	-5 5	-5 5		
		UMC4	FMC4	DTA114YK DTC144EK	10 47	47 47	-50 50	-70 30	68~ 68~	-5 5	-5 5		
		UMC5	FMC5	DTA143XK DTC144EK	4.7 47	10 47	-50 50	-100 30	30~ 68~	-5 5	-5 5		
		-	FMC6	DTA115EK DTC115EK	100 100	100 100	-50 50	-20 20	82~ 82~	-5 5	-5 5		

● Built-in 1 resistor

Equivalent circuit TOP VIEW	Application	Package		Equivalent product	Resistance value		V _{CE0} (V)	I _c (mA)	h _{FE}	V _{CE} (V)		I _c (mA)	
		UM5	FMT		R ₁ (kΩ)	R ₂ (kΩ)				V _{CE} (V)	I _c (mA)		
		Type											
	Inverter Driver	UMA3	FMA3	DTA143TK × 2	4.7		-50	-100	100~600	-5	-1		
		UMA4	FMA4	DTA114TK × 2	10		-50	-100	100~600	-5	-1		
		UMA6	FMA6	DTA144TK × 2	47		-50	-100	100~600	-5	-1		
		UMG3	FMG3	DTC143TK × 2	4.7		50	100	100~600	5	1		
		UMG4	FMG4	DTC114TK × 2	10		50	100	100~600	5	1		
		UMG6	FMG6	DTC144TK × 2	47		50	100	100~600	5	1		
	Switching Circuit	UMC1	FMC1	DTA143TK	4.7		-50	-100	100~600	-5	-1		
				DTC143TK	4.7		50	100	100~600	5	1		
	Pre Amp (6dB Amp)	-	FMQ1	2SA1037K	R ₁ (Ω)	R ₂ (Ω)	-20	-50	120~560	-6	-1		
				2SC2412K	470	470	20	30	120~560	6	1		

7828999 0007747 079 RHM

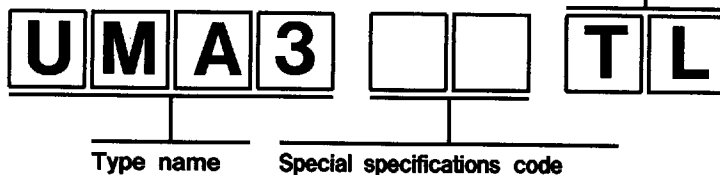
Ordering Designation

Specify type code in order sheet.

Type designation consists of type name, special specifications and package specifications.

Package	UM5	FMT
Code	TL	T149
	TR	T148

Package specifications code



(Unit : mm)

Package	UM5	FMT
Dimensions	<p>Each lead has same dimensions</p>	<p>Each lead has same dimensions</p>
Real size	■	■
Magnification shape (×3.0)		

TP Digital Transistors <Surface Mounted Types>

[5pin type including 2 circuits]

■ 7828999 0007748 T05 ■ RHM

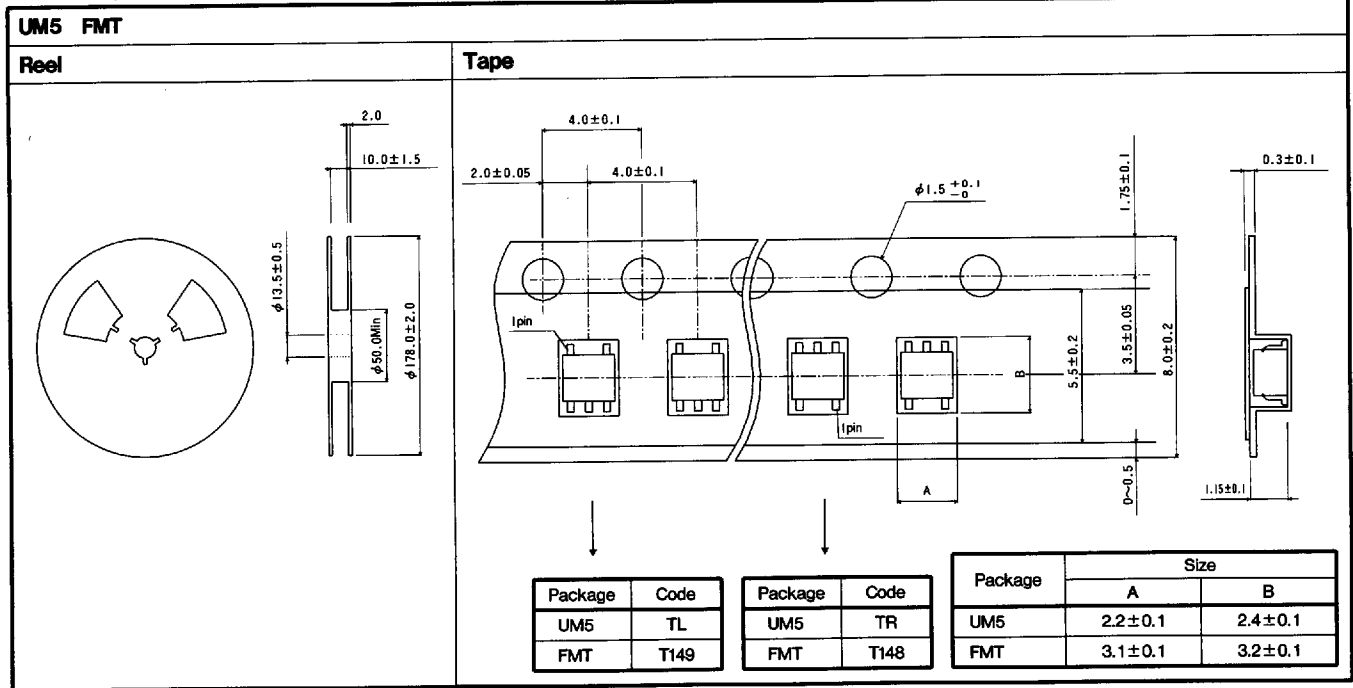
■ UM5 · FMT

● Packing

Package	Packaging type	Packaging condition	Direction	Code	Quantity /Package (pcs.)	Quantity /Unit (pcs.)
UM5	Taping	Embossed reel tape	2-pin side on feed hole side	TL	3000	-
			3-pin side on feed hole side	TR		
FMT	Taping	Embossed reel tape	3-pin side on feed hole side	T148	3000	-
			2-pin side on feed hole side	T149		

● Package Specifications

(Unit : mm)



● For Standard products and Semi-standard products see page from 76 to 78.

● For marking see page From 79 to 81.