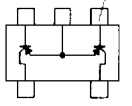
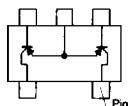
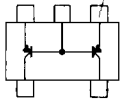
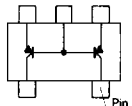
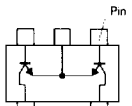
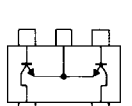
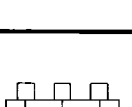
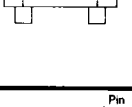
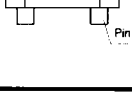
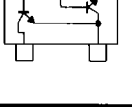
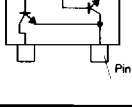
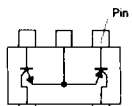
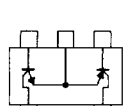
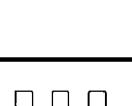
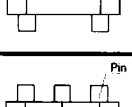
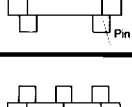


Transistors

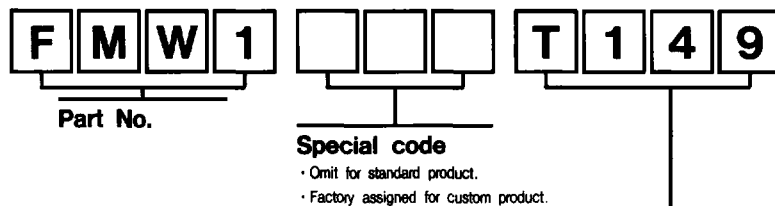
UM5 and UM6 packages contain two transistors in one small surface mount package.

UM5 (Suffix N) • FMT (5 pin type including 2 circuits)

Equivalent circuit		Application	Package		Equivalent product	V _{CEO} (V)	I _c (mA)	h _{FE}	V _{CE} (V)	I _c (mA)
TOP VIEW			UM5	FMT						
UM5	FMT		Part No.							
		Pre Amp	UMS1N	FMS1A	2SA1037AK × 2	-40	-100	120~	-6	-1
			-	FMS3	2SA1514K × 2	-120	-50	180~	-6	-2
		Pre Amp	UMS2N	FMS2A	2SA1037AK × 2	-40	-100	120~	-6	-1
			-	FMS4	2SA1514K × 2	-120	-50	180~	-6	-2
		Pre Amp	UMW1N	FMW1	2SC2412K × 2	40	100	120~	6	1
			-	FMW3	2SC3906K × 2	120	50	180~	6	2
			UMW5N	FMW5	2SC2412K × 2	40	100	250~	6	1
		TV Tuner Mix. Osc.	UMW8N	FMW8	2SC3838K × 2	11	50	27~	10	5
			UMW10N	FMW10	2SC3837K × 2	18	50	27~	10	10
		Pre Amp	UMW2N	FMW2	2SC2412K × 2	40	100	120~	6	1
			-	FMW4	2SC3906K × 2	120	50	180~	6	2
		TV Tuner Mix. Osc.	UMW9N	FMW9	2SC3838K × 2	11	50	27~	10	5
			UMW11N	FMW11	2SC3837K × 2	18	50	27~	10	10
			UMW13N	FMW13	2SC3839K × 2	20	50	27~	10	5
		TV Tuner Mix. Osc.	UMW6N	FMW6	2SC3837K × 2	18	50	27~	10	10
			UMW7N	FMW7	2SC3838K × 2	11	50	27~	10	5
			UMW12N	FMW12	2SC2412K × 2	40	100	120~	6	1
		Single End	UMY1N	FMY1A	2SA1037AK	-50	-100	120~	-6	-1
				FMY1A	2SC2412K	40	100	120~	6	1
			-	FMY5	2SA1514K	-120	-50	180~	-6	-2
				FMY5	2SC3906K	120	50	180~	6	2
			-	FMY6	2SA1036K	-32	-500	120~	-3	-10
		Inverter Driver	UMY3N	FMY3A	2SA1037AK	-40	-100	120~	-6	-1
				FMY3A	2SC2412K	40	100	120~	6	1
		Inverter Driver	UMY4N	FMY4A	2SA1037AK	-40	-100	120~	-6	-1
				FMY4A	2SC2412K	40	100	120~	6	1
		Pre Amp	UML1N	-	2SA1037AK	-40	-100	120~	-6	-1
				-	DAN212K	Diode characteristics VR=80V, I _o =100mA, C _T =3.5pF, trr=4.0ns				
		Pre Amp	UML2N	-	2SC2412K	40	100	120~	6	1
				-	DAN212K	Diode characteristics VR=80V, I _o =100mA, C _T =3.5pF, trr=4.0ns				

●Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.



Packaging

Package	Code	Packaging type	Packaging style	Direction	Quantity /Package (pcs)
UM5 (Suffix N)	TL	taping	Embossed reel tape	2 Pins side on sprocket hole side	3,000
	TR			3 Pins side on sprocket hole side	
FMT	T148	Taping	Embossed reel tape	3 Pins side on sprocket hole side	3,000
	T149			2 Pins side on sprocket hole side	

(Unit : mm)

Package	UM5 (Suffix N)	FMT (SOT-25)
dimensions	TOP VIEW	TOP VIEW
	Actual size	Enlarged (×3.0)
	Actual size	Enlarged (×3.0)

●Packaging Specifications

(Unit : mm)

UM5 (Suffix N) FMT																
Reel	Tape															
2.0 10.0±1.5 φ13.5±0.5 φ4.0 Min. φ178.0±2.0	4.0±0.1 2.0±0.05 4.0±0.1 Sprocket hole φ1.5±0.1 1.75±0.1 0.3±0.1 3.5±0.05 8.0±0.2 5.5±0.2 0~0.5 A B C Feeding direction															
<table><tr><th>Package</th><th>Code</th></tr><tr><td>UM5</td><td>TL</td></tr><tr><td>FMT</td><td>T149</td></tr></table>	Package	Code	UM5	TL	FMT	T149	<table><tr><th>Package</th><th>Code</th></tr><tr><td>UM5</td><td>TR</td></tr><tr><td>FMT</td><td>T148</td></tr></table>	Package	Code	UM5	TR	FMT	T148			
Package	Code															
UM5	TL															
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Package	Code															
UM5	TR															
FMT	T148															
<table><tr><th rowspan="2">Package</th><th colspan="3">Size</th></tr><tr><th>A</th><th>B</th><th>C</th></tr><tr><td>UM5</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>3.1±0.1</td><td>3.2±0.1</td><td>1.35±0.1</td></tr></table>		Package	Size			A	B	C	UM5	2.2±0.1	2.4±0.1	1.15±0.1	FMT	3.1±0.1	3.2±0.1	1.35±0.1
Package	Size															
	A	B	C													
UM5	2.2±0.1	2.4±0.1	1.15±0.1													
FMT	3.1±0.1	3.2±0.1	1.35±0.1													