

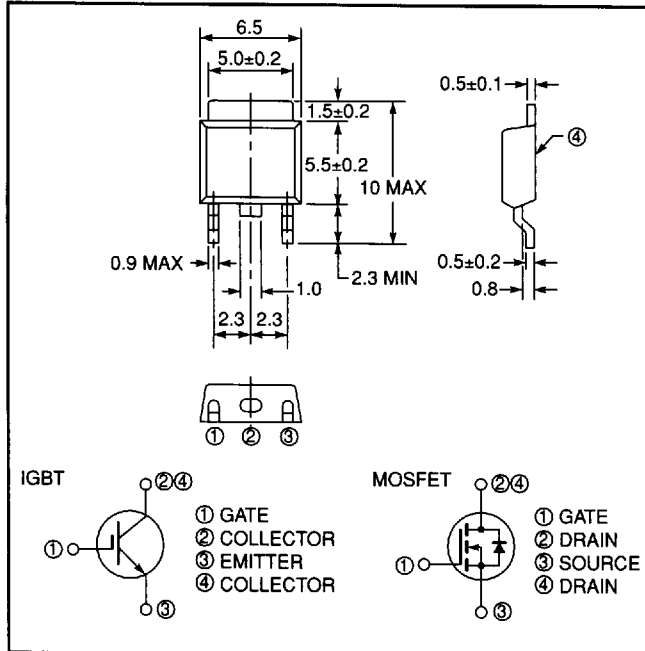
Discrete MOSFET - Low Voltage Trench Gate (continued)

4.0V Driver Voltage n-channel MOSFETs

Device Number	Maximum Ratings, T _c = 25°C				Electrical Characteristics				Package	
	V _{DSS} (V)	I _D (A)	P _D (W)	V _{GSS} (V)	r _{DS(on)} (mΩ)		V _{GS(th)} (V)	C _{iss} (pF)	Outline	Page
					Typ.	Max.				
FS5ASJ-2	100	5	20	±20	310	400	1.5	360	MP-3	31
FS5UMJ-2	100	5	20	±20	310	400	1.5	360	TO-220	31
FS5VSJ-2	100	5	20	±20	310	400	1.5	360	TO-220S	31
FS5KMJ-2	100	5	15	±20	310	400	1.5	360	TO-220FN	31
FS10ASJ-2	100	10	30	±20	142	190	1.5	800	MP-3	31
FS10UMJ-2	100	10	30	±20	142	190	1.5	800	TO-220	31
FS10VSJ-2	100	10	30	±20	142	190	1.5	800	TO-220S	31
FS10KMJ-2	100	10	20	±20	142	190	1.5	800	TO-220FN	31
FS10SMJ-2	100	10	30	±20	142	190	1.5	800	TO-3P	32
FS30ASJ-2	100	30	35	±20	65	84	1.5	1800	MP-3	31
FS30UMJ-2	100	30	45	±20	65	84	1.5	1800	TO-220	31
FS30VSJ-2	100	30	45	±20	65	84	1.5	1800	TO-220S	31
FS30KMJ-2	100	30	25	±20	65	84	1.5	1800	TO-220FN	31
FS30SMJ-2	100	30	45	±20	65	84	1.5	1800	TO-3P	32
FS50UMJ-2	100	50	70	±20	37	48	1.5	3000	TO-220	31
FS50VSJ-2	100	50	70	±20	37	48	1.5	3000	TO-220S	31
FS50KMJ-2	100	50	30	±20	37	48	1.5	3000	TO-220FN	31
FS50SMJ-2	100	50	70	±20	37	48	1.5	3000	TO-3P	32
FS70UMJ-2	100	70	125	±20	13	17	1.5	8200	TO-220	31
FS70VSJ-2	100	70	125	±20	13	17	1.5	8200	TO-220S	31
FS70KMJ-2	100	70	35	±20	13	17	1.5	8200	TO-220FN	31
FS70SMJ-2	100	70	150	±20	13	17	1.5	8200	TO-3P	32
FS2ASJ-3	150	2	20	±20	575	750	1.5	360	MP-3	31
FS2UMJ-3	150	2	20	±20	575	750	1.5	360	TO-220	31
FS2VSJ-3	150	2	20	±20	575	750	1.5	360	TO-220S	31
FS2KMJ-3	150	2	15	±20	575	750	1.5	360	TO-220FN	31
FS5ASJ-3	150	5	30	±20	266	350	1.5	800	MP-3	31
FS5UMJ-3	150	5	30	±20	266	350	1.5	800	TO-220	31
FS5VSJ-3	150	5	30	±20	266	350	1.5	800	TO-220S	31
FS5KMJ-3	150	5	20	±20	266	350	1.5	800	TO-220FN	31
FS5SMJ-3	150	5	30	±20	266	350	1.5	800	TO-3P	32
FS10ASJ-3	150	10	35	±20	120	160	1.5	1800	MP-3	31
FS10UMJ-3	150	10	45	±20	120	160	1.5	1800	TO-220	31
FS10VSJ-3	150	10	45	±20	120	160	1.5	1800	TO-220S	31
FS10KMJ-3	150	10	25	±20	120	160	1.5	1800	TO-220FN	31
FS10SMJ-3	150	10	45	±20	120	160	1.5	1800	TO-3P	32
FS30UMJ-3	150	30	70	±20	66	86	1.5	3000	TO-220	31
FS30VSJ-3	150	30	70	±20	66	86	1.5	3000	TO-220S	31
FS30KMJ-3	150	30	30	±20	66	86	1.5	3000	TO-220FN	31
FS30SMJ-3	150	30	70	±20	66	86	1.5	3000	TO-3P	32
FS50UMJ-3	150	50	125	±20	23	30	1.5	8200	TO-220	31
FS50VSJ-3	150	50	125	±20	23	30	1.5	8200	TO-220S	31
FS50KMJ-3	150	50	35	±20	23	30	1.5	8200	TO-220FN	31
FS50SMJ-3	150	50	150	±20	23	30	1.5	8200	TO-3P	32

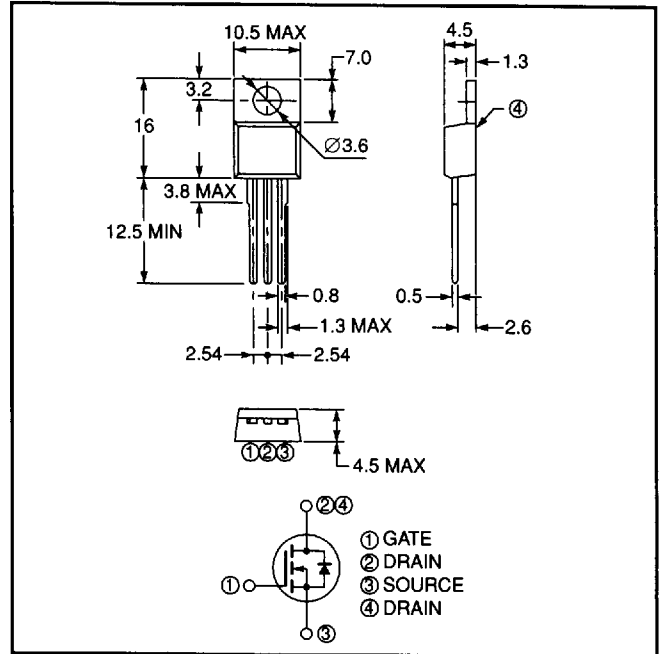
r_{DS(on)} (mΩ) - shows maximum value of on-resistance at V_{GS} = 10V

Device Outline Drawings

MP-3

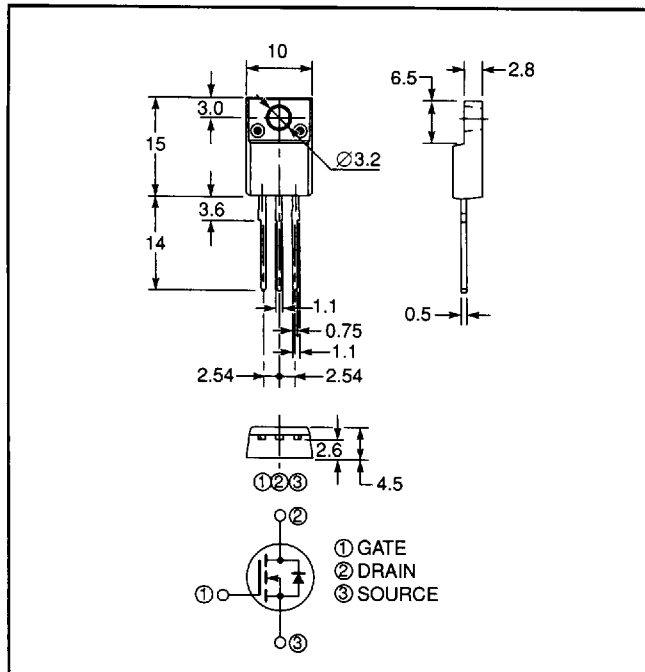
IGBT	CT**AS-8
MOSFET	FS**AS-8

TO-220



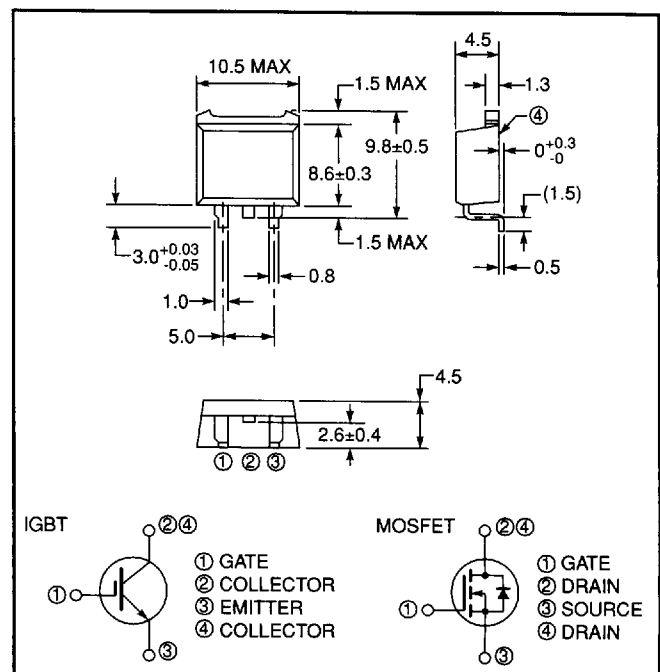
MOSFET **FK**UM-**,FS**UM-***

TO-220FN



MOSFET **FK**KM-**, FS**KM-****

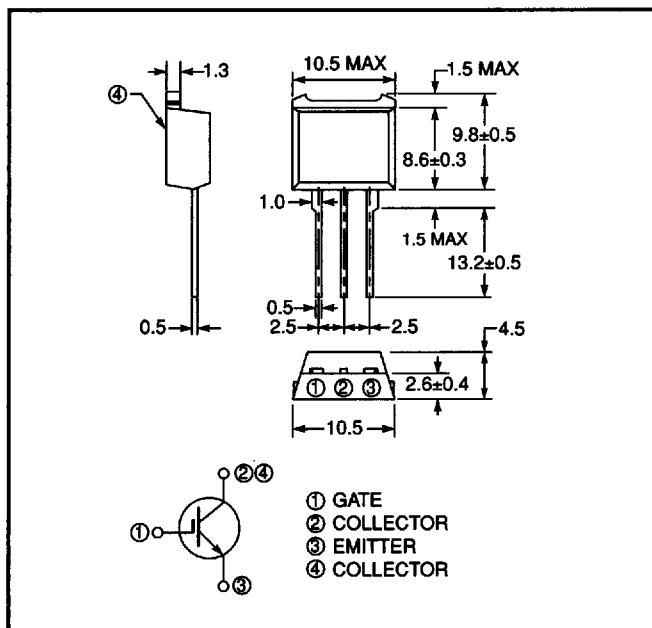
TO-220S



IGBT	CT**VS-8
MOSFET	FK**VS-**, FS**VS-**

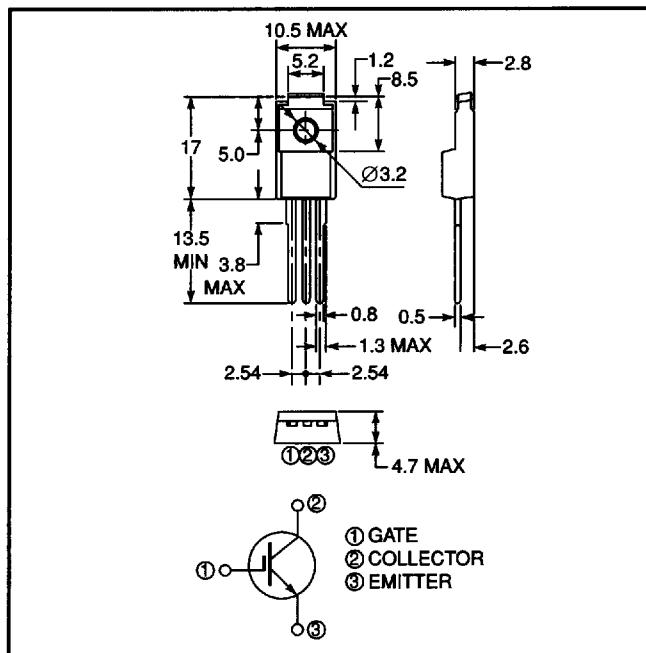
Device Outline Drawings

TO-220C



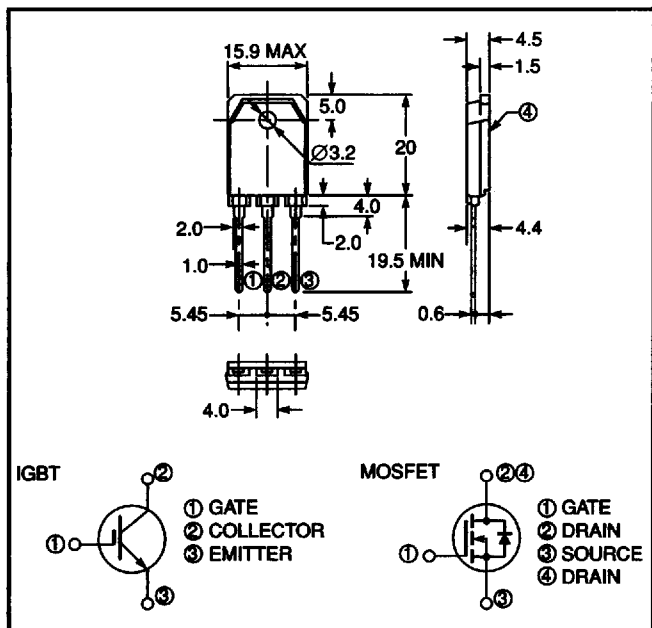
IGBT CT**VM-8

TO-220F



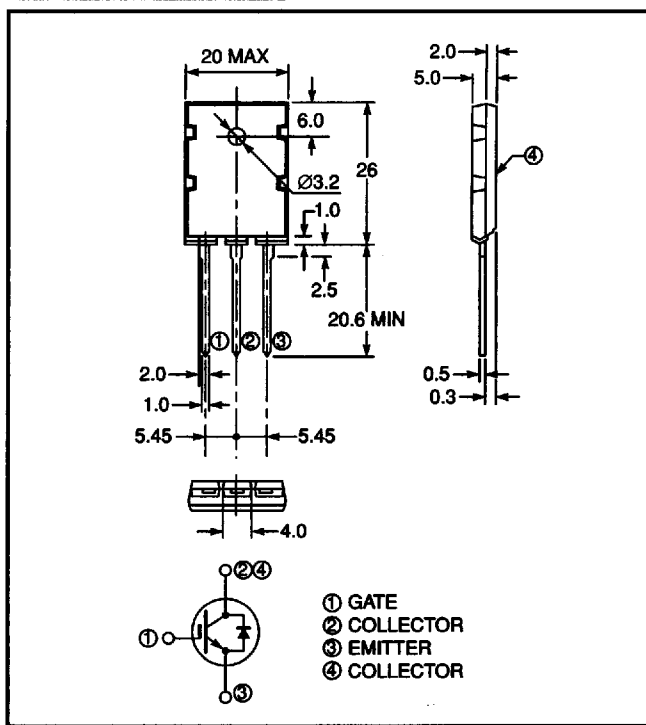
IGBT CT**TM-**

TO-3P



IGBT CT**SM-8
MOSFET FK**SM-**, FS**SM-*

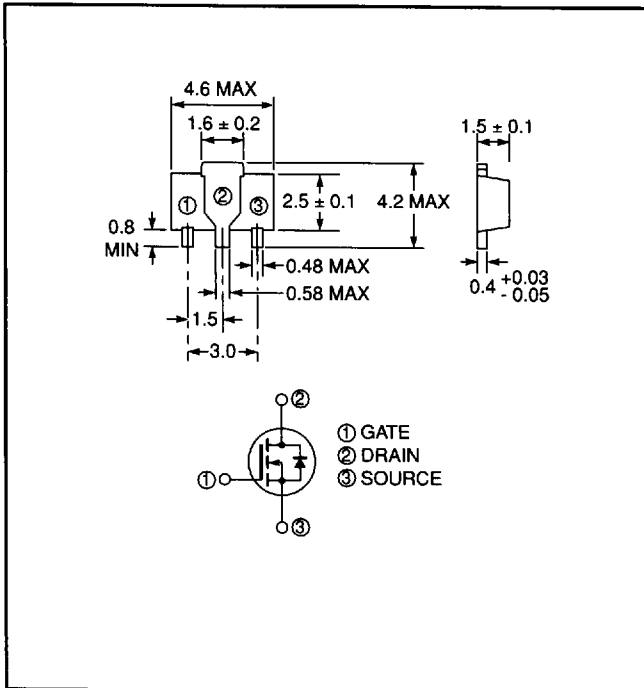
TO-3PL



IGBT CT**AM-*

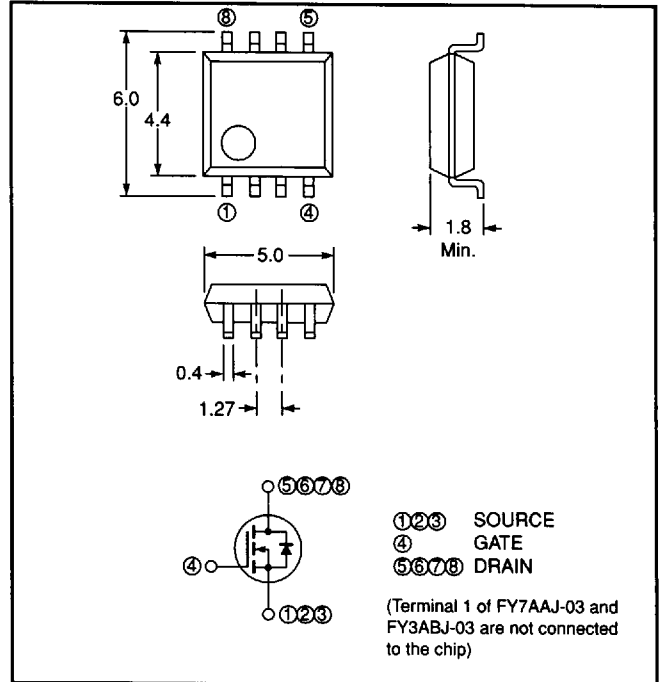
Device Outline Drawings

SOT-89



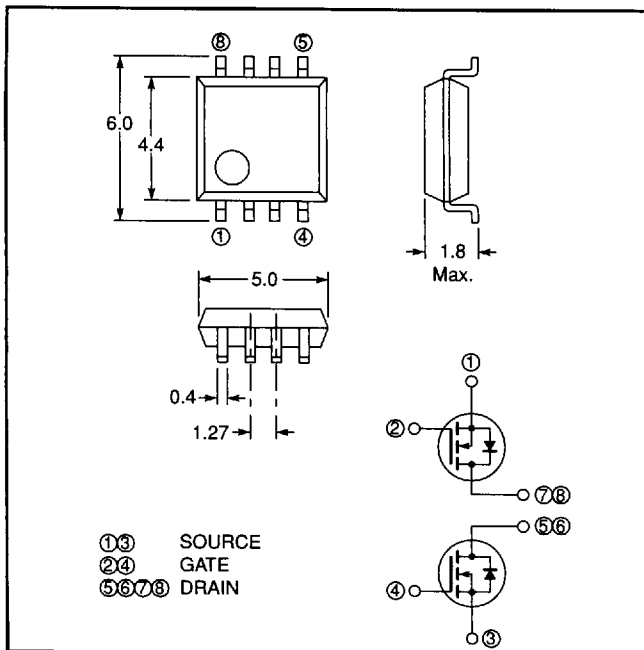
MOSFET FS**, FX**

SOP-8 (Single)



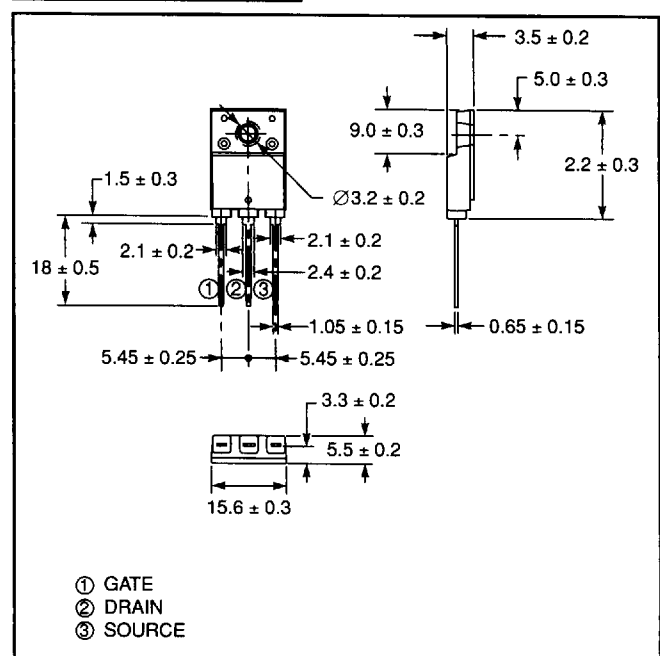
MOSFET FY**

SOP-8 (Dual)



MOSFET FY**

TO-3PF



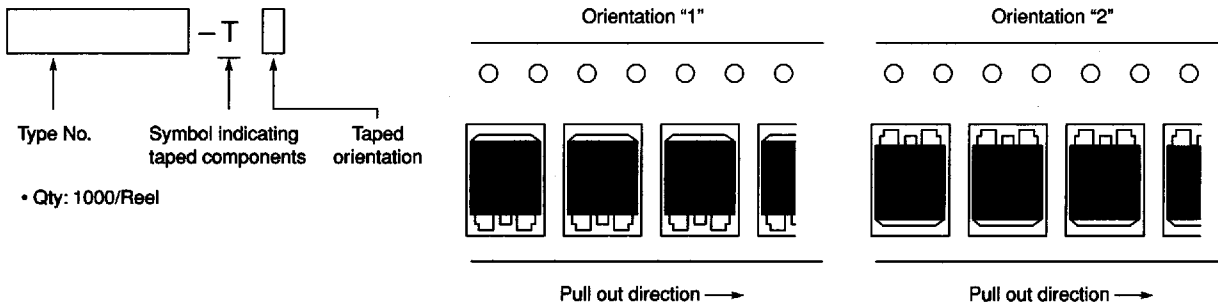
MOSFET FS**RM-**

MOSFET Packing Quantities and Types

Package	Outline Code	Packing	Minimum Quantity per Package
TO-220	UM	Bag	100
TO-220FN	KM	Tube	50
TO-220S	VS	Bag	100
TO-220S	VS	Reel	1000
TO-3P	SM	Bag	20
MP-3	AS	Bag	500
MP-3	AS	Reel	3000
SOP-8	FY	Reel	3000

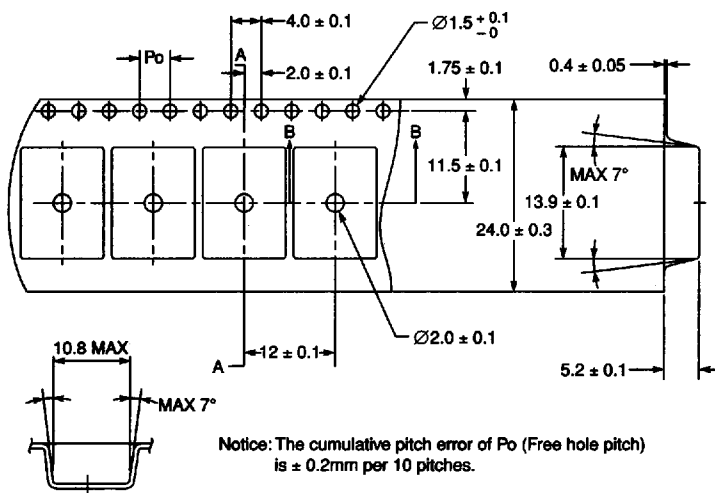
TO-220S Taping

(a) Marking

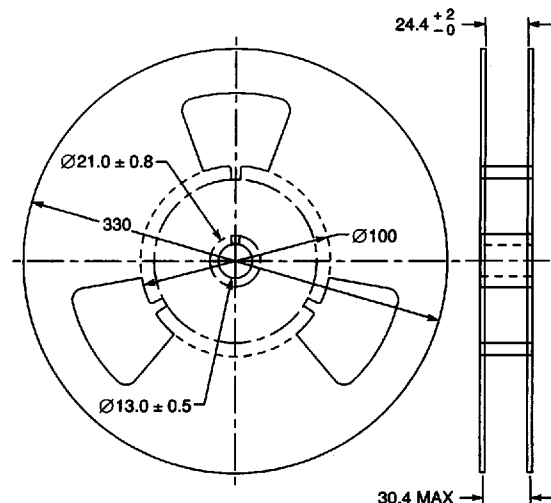


(b) Taping

• Tape Shape and Dimensions



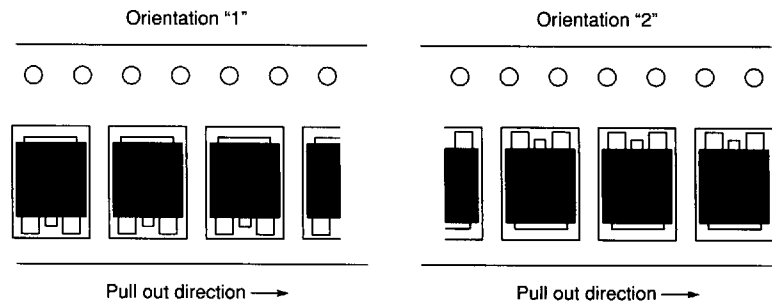
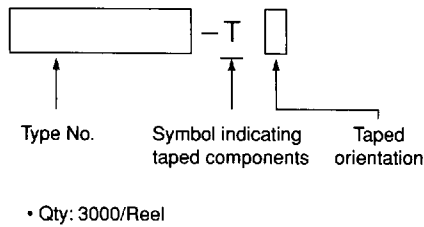
• Reel Shape and Dimensions



Packaging Information

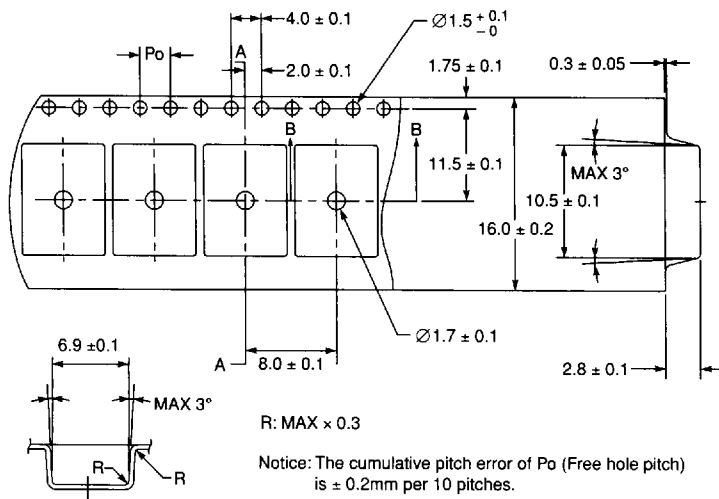
MP-3 Taping

(a) Marking

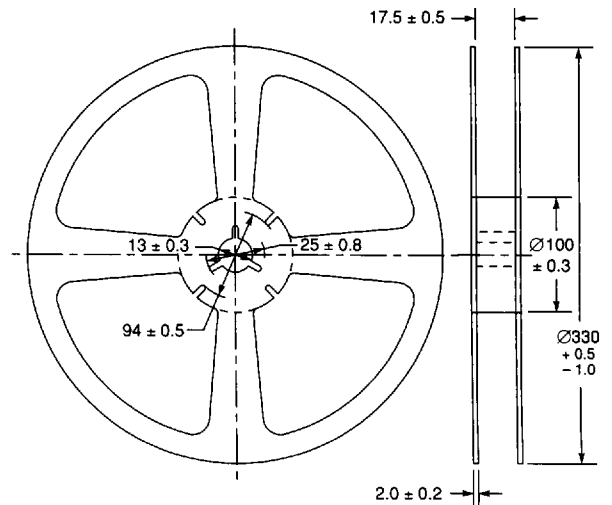


(b) Taping

• Tape Shape and Dimensions



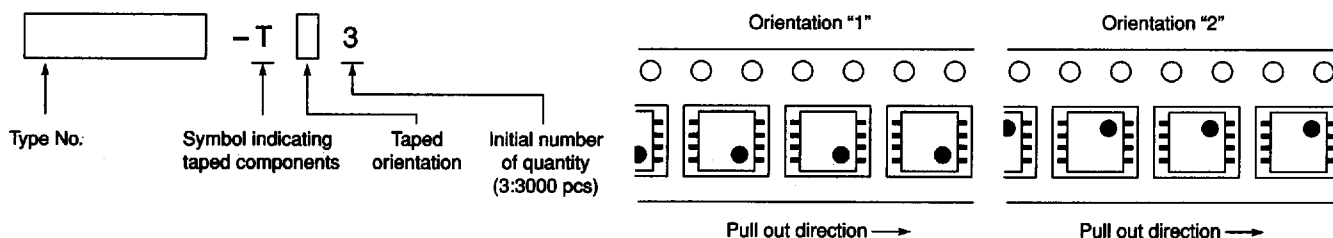
• Reel Shape and Dimensions



Packaging Information

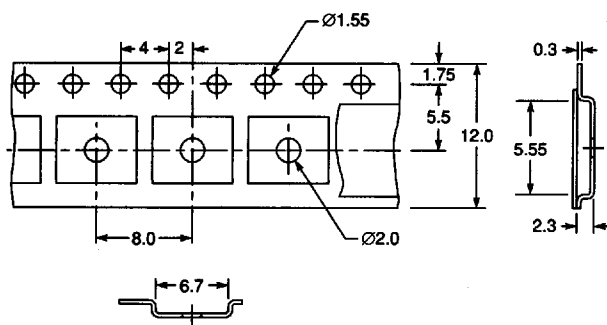
SOP-8 Taping

(a) Marking

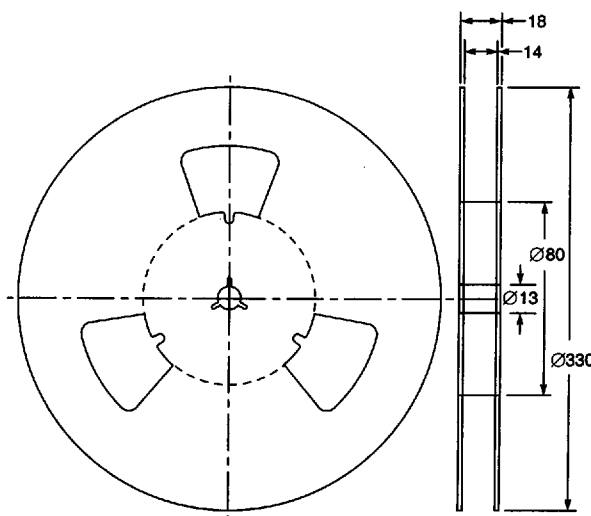


(b) Taping

• Tape Shape and Dimensions

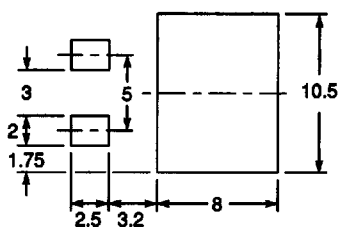


• Reel Shape and Dimensions

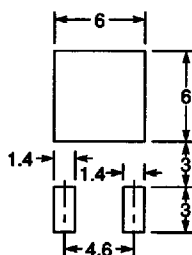


Recommended Mounting Pad

TO-220S Package



MP-3 Package



SOP-8 Package

