

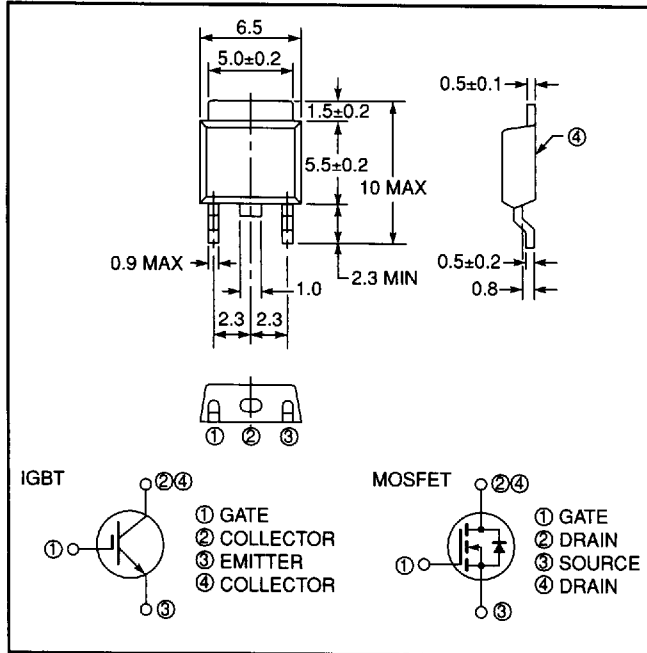
Discrete MOSFET - Low Voltage Trench Gate 10.0V Driver Voltage n-channel MOSFETs

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.				
FS10AS-03	30	10	20	±20	72	95	3	280	MP-3	31
FS10UM-03	30	10	20	±20	72	95	3	280	TO-220	31
FS10VS-03	30	10	20	±20	72	95	3	280	TO-220S	31
FS10KM-03	30	10	15	±20	72	95	3	280	TO-220FN	31
FS30AS-03	30	30	30	±20	36	46	3	600	MP-3	31
FS30UM-03	30	30	30	±20	36	46	3	600	TO-220	31
FS30VS-03	30	30	30	±20	36	46	3	600	TO-220S	31
FS30KM-03	30	30	20	±20	36	46	3	600	TO-220FN	31
FS30SM-03	30	30	30	±20	36	46	3	600	TO-3P	32
FS50AS-03	30	50	35	±20	17	23	3	1300	MP-3	31
FS50UM-03	30	50	45	±20	17	23	3	1300	TO-220	31
FS50VS-03	30	50	45	±20	17	23	3	1300	TO-220S	31
FS50KM-03	30	50	25	±20	17	23	3	1300	TO-220FN	31
FS50SM-03	30	50	45	±20	17	23	3	1300	TO-3P	32
FS70UM-03	30	70	70	±20	11	14	3	2400	TO-220	31
FS70VS-03	30	70	70	±20	11	14	3	2400	TO-220S	31
FS70KM-03	30	70	30	±20	11	14	3	2400	TO-220FN	31
FS70SM-03	30	70	70	±20	11	14	3	2400	TO-3P	32
FS100UM-03	30	100	125	±20	4	5.4	3	6600	TO-220	31
FS100VS-03	30	100	125	±20	4	5.4	3	6600	TO-220S	31
FS100KM-03	30	100	35	±20	4	5.4	3	6600	TO-220FN	31
FS100SM-03	30	100	150	±20	4	5.4	3	6600	TO-3P	32
FS5AS-06	60	5	20	±20	122	160	3	280	MP-3	31
FS5UM-06	60	5	20	±20	122	160	3	280	TO-220	31
FS5VS-06	60	5	20	±20	122	160	3	280	TO-220S	31
FS5KM-06	60	5	15	±20	122	160	3	280	TO-220FN	31
FS10AS-06	60	10	30	±20	58	78	3	600	MP-3	31
FS10UM-06	60	10	30	±20	58	78	3	600	TO-220	31
FS10VS-06	60	10	30	±20	58	78	3	600	TO-220S	31
FS10KM-06	60	10	20	±20	58	78	3	600	TO-220FN	31
FS10SM-06	60	10	30	±20	58	78	3	600	TO-3P	32
FS30AS-06	60	30	35	±20	23	30	3	1450	MP-3	31
FS30UM-06	60	30	45	±20	23	30	3	1450	TO-220	31
FS30VS-06	60	30	45	±20	23	30	3	1450	TO-220S	31
FS30KM-06	60	30	25	±20	23	30	3	1450	TO-220FN	31
FS30SM-06	60	30	45	±20	23	30	3	1450	TO-3P	32
FS50UM-06	60	50	70	±20	17	22	3	2300	TO-220	31
FS50VS-06	60	50	70	±20	17	22	3	2300	TO-220S	31
FS50KM-06	60	50	30	±20	17	22	3	2300	TO-220FN	31
FS50SM-06	60	50	70	±20	17	22	3	2300	TO-3P	32
FS70UM-06	60	70	125	±20	5.7	7.5	3	6750	TO-220	31
FS70VS-06	60	70	125	±20	5.7	7.5	3	6750	TO-220S	31
FS70KM-06	60	70	35	±20	5.7	7.5	3	6750	TO-220FN	31
FS70SM-06	60	70	150	±20	5.7	7.5	3	6750	TO-3P	32

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

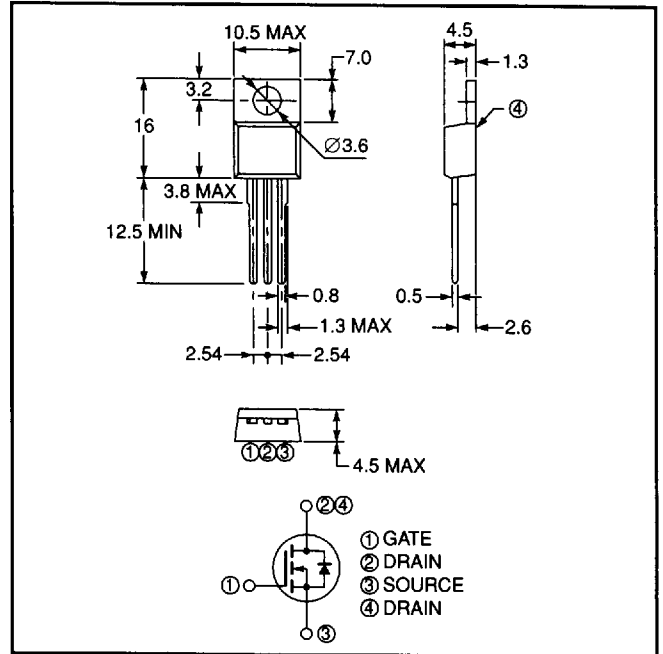
Device Outline Drawings

MP-3



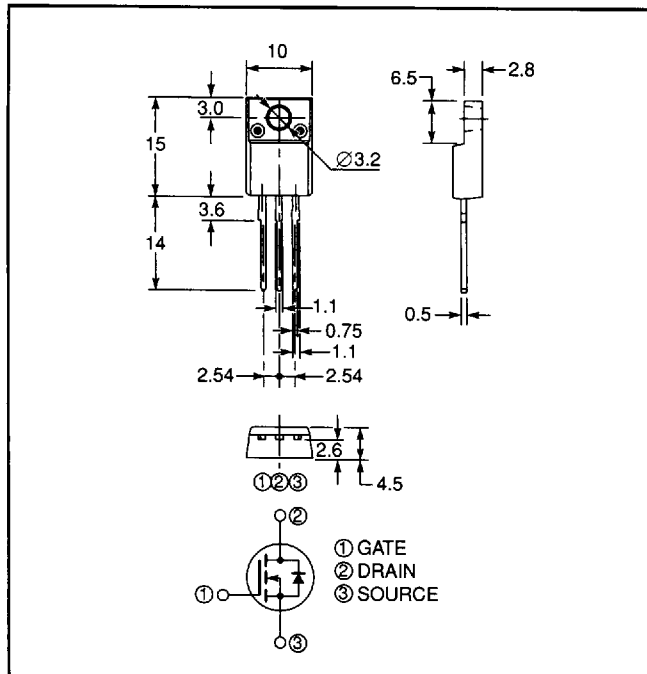
IGBT CT**AS-8
MOSFET FS**AS-8

TO-220



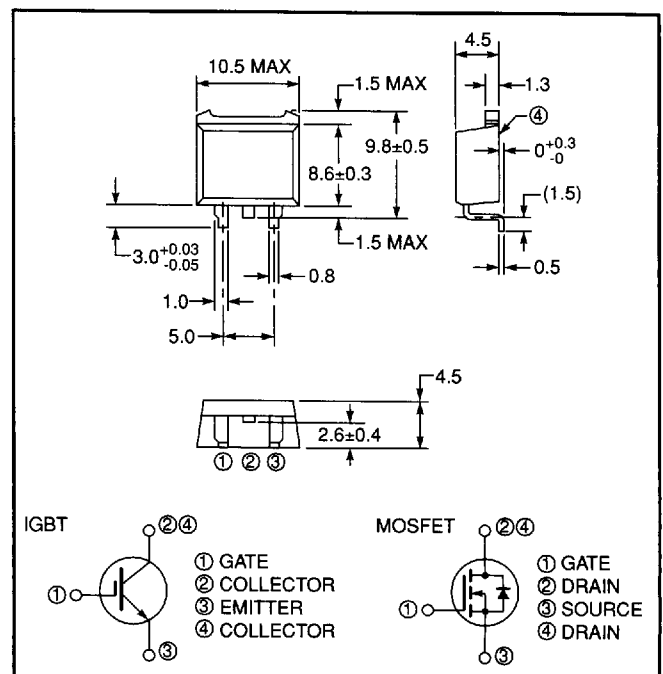
MOSFET FK**UM-**, FS**UM-**

TO-220FN



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

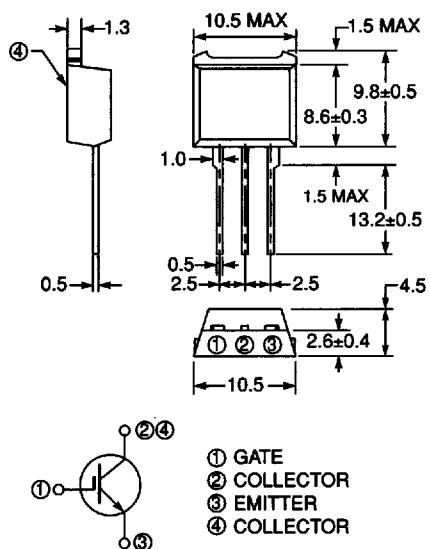
TO-220S



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

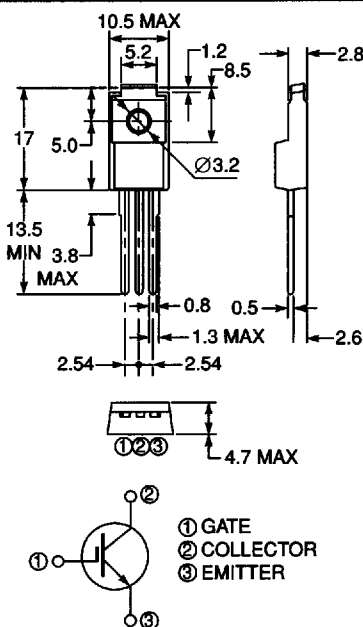
Device Outline Drawings

TO-220C



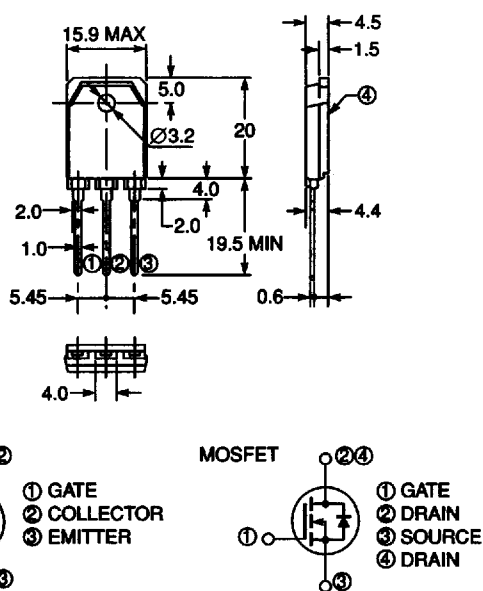
IGBT CT**VM-8

TO-220F



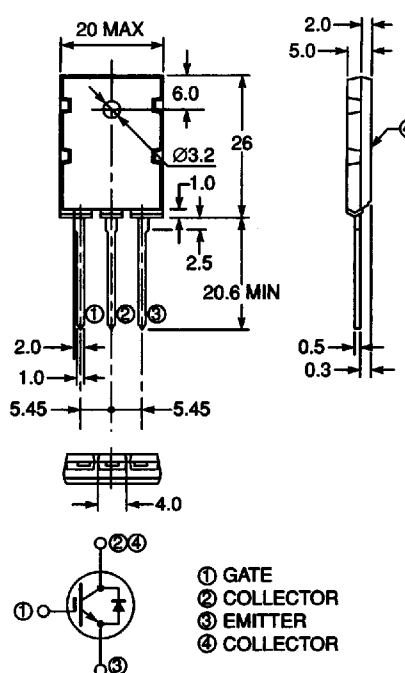
IGBT CT**TM-**

TO-3P



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

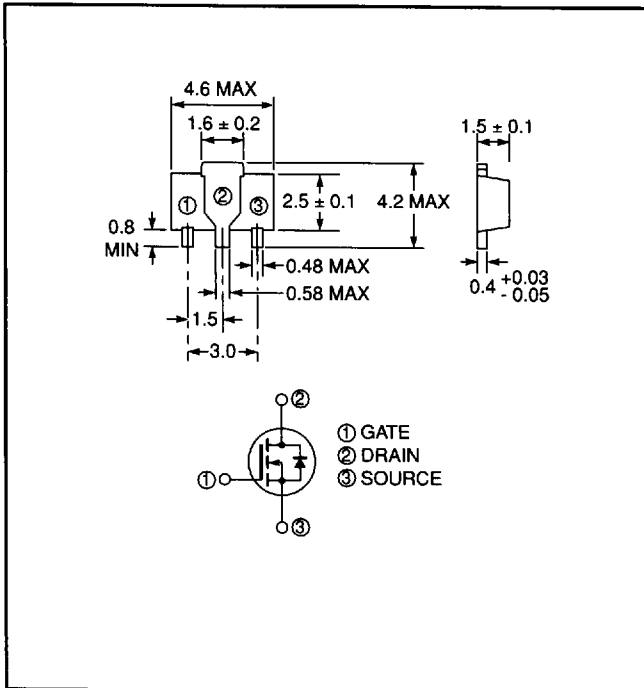
TO-3PL



IGBT CT**AM-**

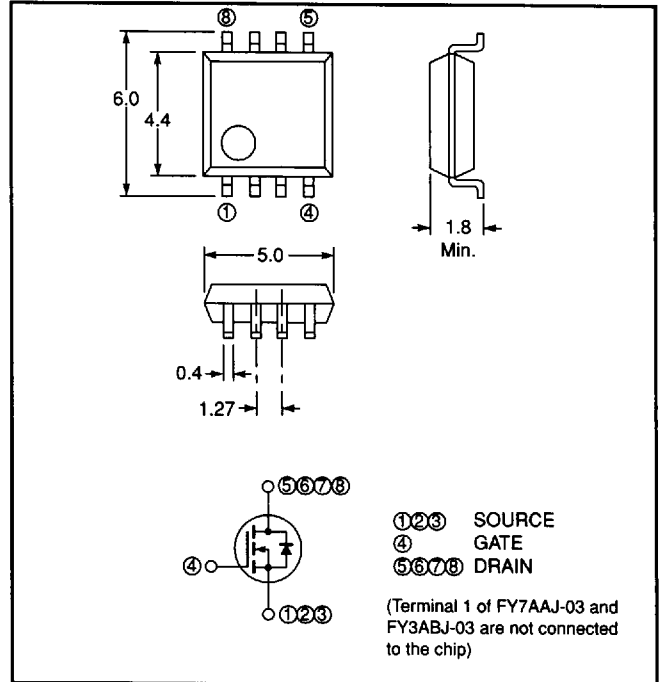
Device Outline Drawings

SOT-89



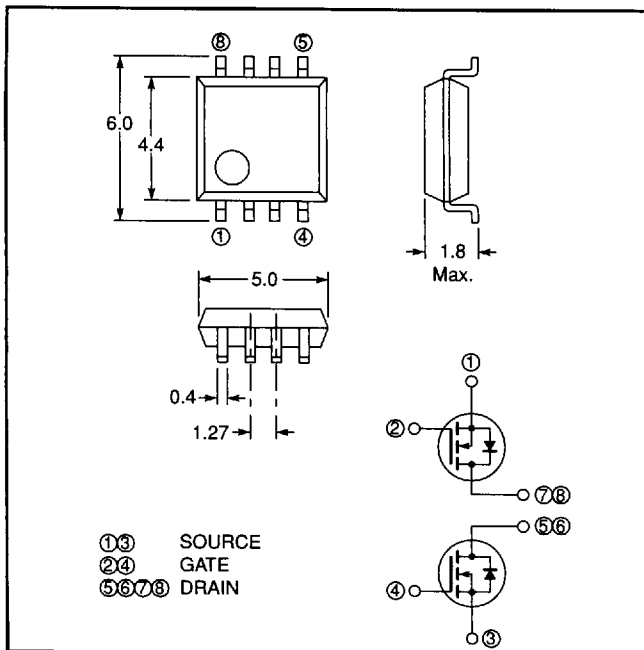
MOSFET FS**, FX**

SOP-8 (Single)



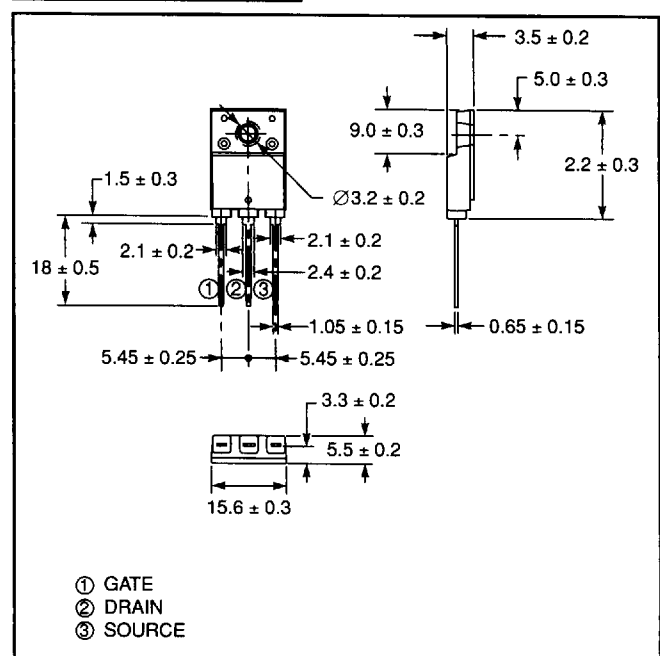
MOSFET FY**

SOP-8 (Dual)



MOSFET FY**

TO-3PF



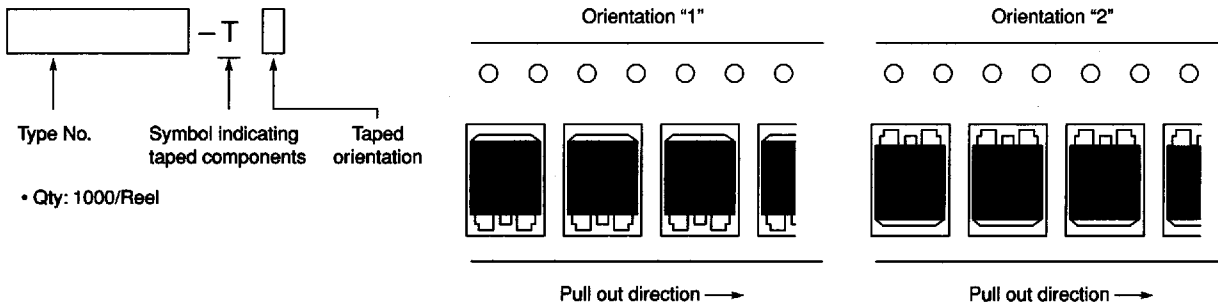
MOSFET FS**RM-**

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

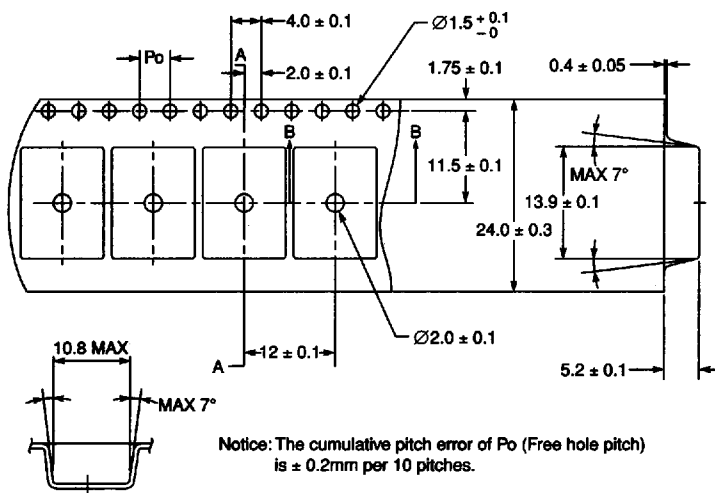
TO-220S Taping

(a) Marking

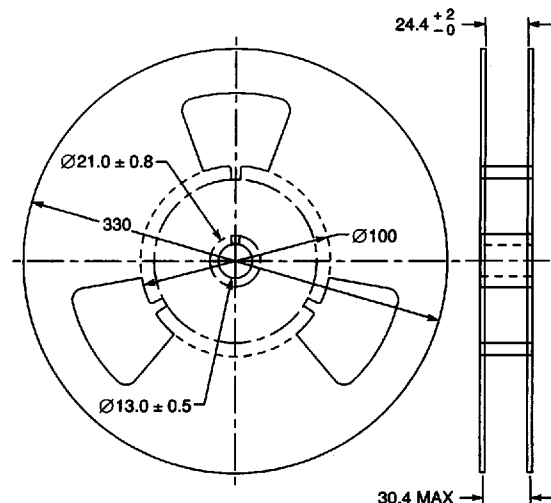


(b) Taping

• Tape Shape and Dimensions



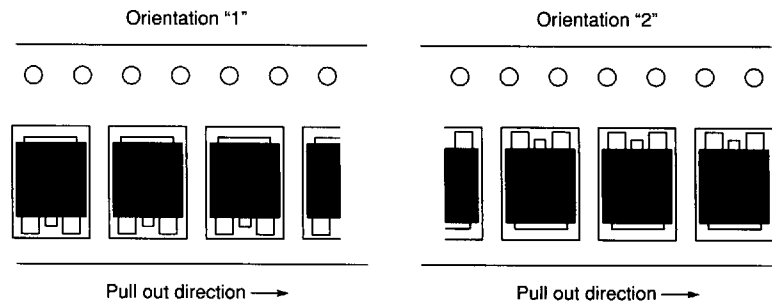
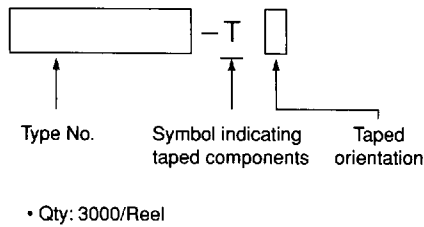
• Reel Shape and Dimensions



Packaging Information

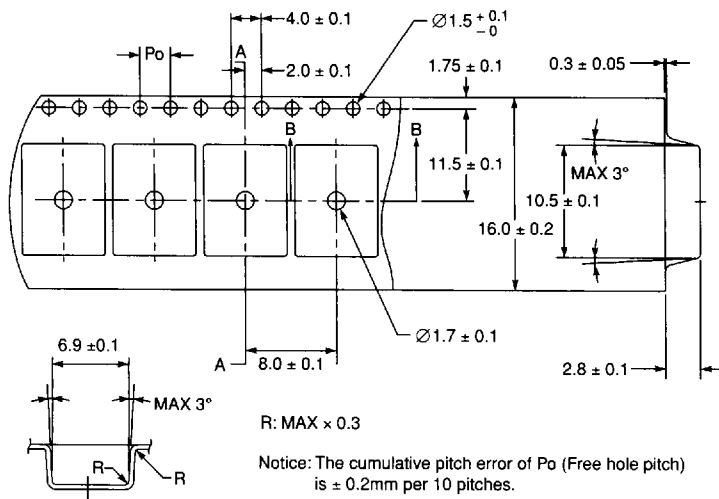
MP-3 Taping

(a) Marking

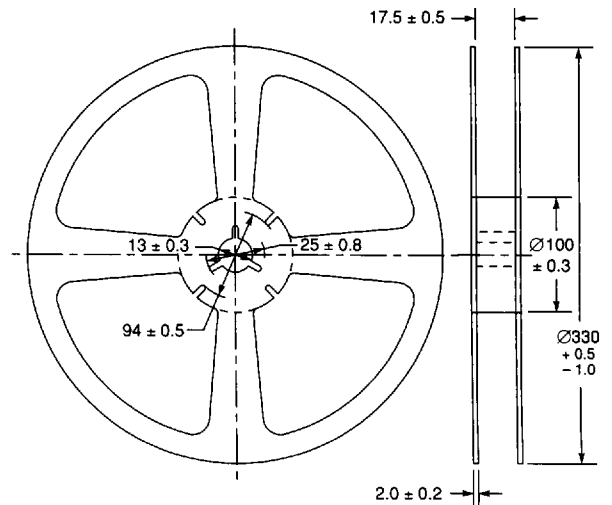


(b) Taping

• Tape Shape and Dimensions



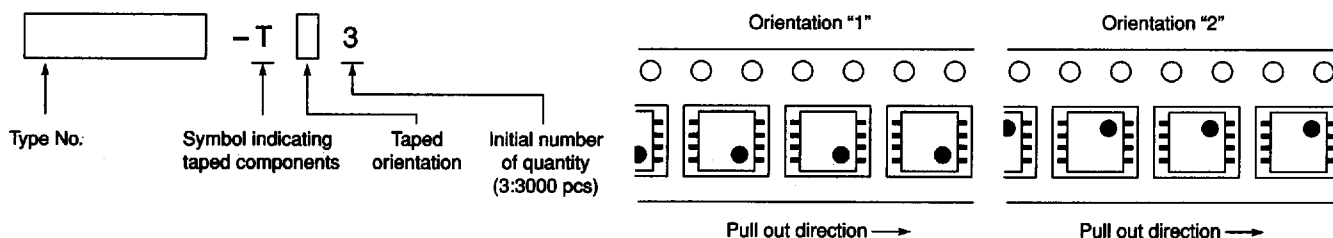
• Reel Shape and Dimensions



Packaging Information

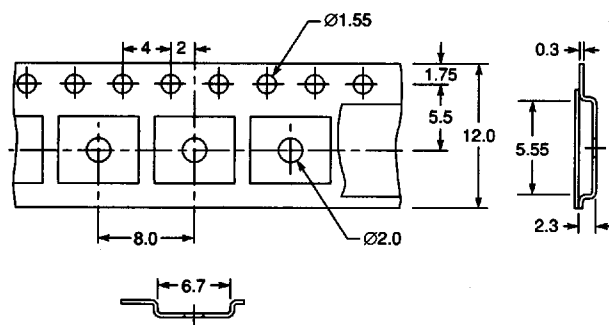
SOP-8 Taping

(a) Marking

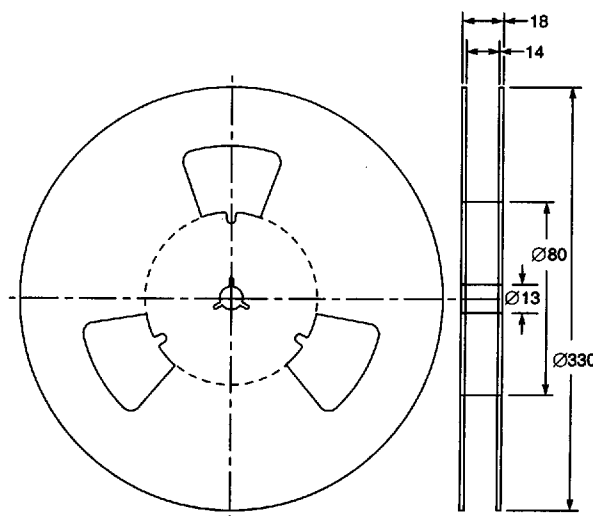


(b) Taping

• Tape Shape and Dimensions

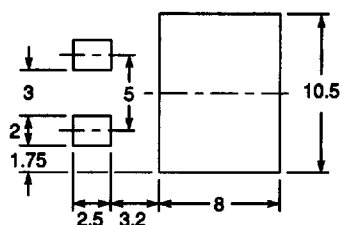


• Reel Shape and Dimensions

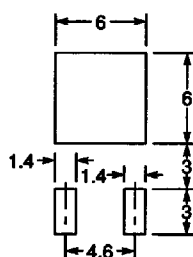


Recommended Mounting Pad

TO-220S Package



MP-3 Package



SOP-8 Package

