

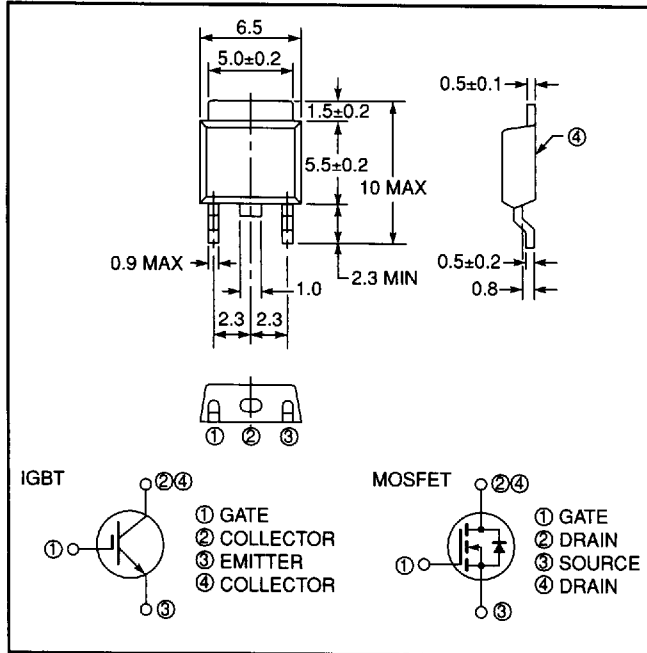
Discrete MOSFET - Low Voltage Trench Gate 10.0V Driver Voltage p-channel MOSFETs

Device Number	Maximum Ratings, $T_c = 25^\circ\text{C}$			Electrical Characteristics				Package	
	V_{DS} (V)	I_D (A)	V_{GS} (V)	$r_{DS(on)}$ (m Ω)		$V_{GS(th)}$ (V)	C_{iss} (pF)	Outline	Page
				Typ.	Max.				
FX6AS-03	-30	-6	± 20	250	330	-3	420	MP-3	31
FX6KM-03	-30	-6	± 20	250	330	-3	420	TO-220FN	31
FX6UM-03	-30	-6	± 20	250	330	-3	420	TO-220	31
FX6VS-03	-30	-6	± 20	250	330	-3	420	TO-220S	31
FX3AS-06	-60	-3	± 20	420	540	-3	420	MP-3	31
FX3KM-06	-60	-3	± 20	420	540	-3	420	TO-220FN	31
FX3UM-06	-60	-3	± 20	420	540	-3	420	TO-220	31
FX3VS-06	-60	-3	± 20	420	540	-3	420	TO-220S	31
FX6AS-06	-60	-6	± 20	190	240	-3	865	MP-3	31
FX6KM-06	-60	-6	± 20	190	240	-3	865	TO-220FN	31
FX6UM-06	-60	-6	± 20	190	240	-3	865	TO-220	31
FX6VS-06	-60	-6	± 20	190	240	-3	865	TO-220S	31
FX6SM-06	-60	-6	± 20	190	240	-3	865	TO-3P	32
FX20AS-06	-60	-20	± 20	92	120	-3	1645	MP-3	31
FX20KM-06	-60	-20	± 20	92	120	-3	1645	TO-220FN	31
FX20UM-06	-60	-20	± 20	92	120	-3	1645	TO-220	31
FX20VS-06	-60	-20	± 20	92	120	-3	1645	TO-220S	31
FX20SM-06	-60	-20	± 20	92	120	-3	1645	TO-3P	32
FX30KM-06	-60	-30	± 20	48	63	-3	3325	TO-220FN	31
FX30UM-06	-60	-30	± 20	48	63	-3	3325	TO-220	31
FX30VS-06	-60	-30	± 20	48	63	-3	3325	TO-220S	31
FX30SM-06	-60	-30	± 20	48	63	-3	3325	TO-3P	32
FX50KM-06	-60	-50	± 20	17	22	-3	9245	TO-220FN	31
FX50UM-06	-60	-50	± 20	17	22	-3	9245	TO-220	31
FX50VS-06	-60	-50	± 20	17	22	-3	9245	TO-220S	31
FX50SM-06	-60	-50	± 20	17	22	-3	9245	TO-3P	32
FX3AS-2	-100	-3	± 20	1200	1600	-3	400	MP-3	31
FX3KM-2	-100	-3	± 20	1200	1600	-3	400	TO-220FN	31
FX3UM-2	-100	-3	± 20	1200	1600	-3	400	TO-220	31
FX3VS-2	-100	-3	± 20	1200	1600	-3	400	TO-220S	31
FX6AS-2	-100	-6	± 20	560	730	-3	770	MP-3	31
FX6KM-2	-100	-6	± 20	560	730	-3	770	TO-220FN	31
FX6UM-2	-100	-6	± 20	560	730	-3	770	TO-220	31
FX6VS-2	-100	-6	± 20	560	730	-3	770	TO-220S	31
FX6SM-2	-100	-6	± 20	560	730	-3	770	TO-3P	32
FX20AS-2	-100	-20	± 20	250	320	-3	1875	MP-3	31
FX20KM-2	-100	-20	± 20	250	320	-3	1875	TO-220FN	31
FX20UM-2	-100	-20	± 20	250	320	-3	1875	TO-220	31
FX20VS-2	-100	-20	± 20	250	320	-3	1875	TO-220S	31
FX20SM-2	-100	-20	± 20	250	320	-3	1875	TO-3P	32
FX30KM-2	-100	-30	± 20	140	180	-3	3050	TO-220FN	31
FX30UM-2	-100	-30	± 20	140	180	-3	3050	TO-220	31
FX30VS-2	-100	-30	± 20	140	180	-3	3050	TO-220S	31
FX30SM-2	-100	-30	± 20	140	180	-3	3050	TO-3P	32
FX50KM-2	-100	-50	± 20	46	60	-3	8425	TO-220FN	31
FX50UM-2	-100	-50	± 20	46	60	-3	8425	TO-220	31
FX50VS-2	-100	-50	± 20	46	60	-3	8425	TO-220S	31
FX50SM-2	-100	-50	± 20	46	60	-3	8425	TO-3P	32

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

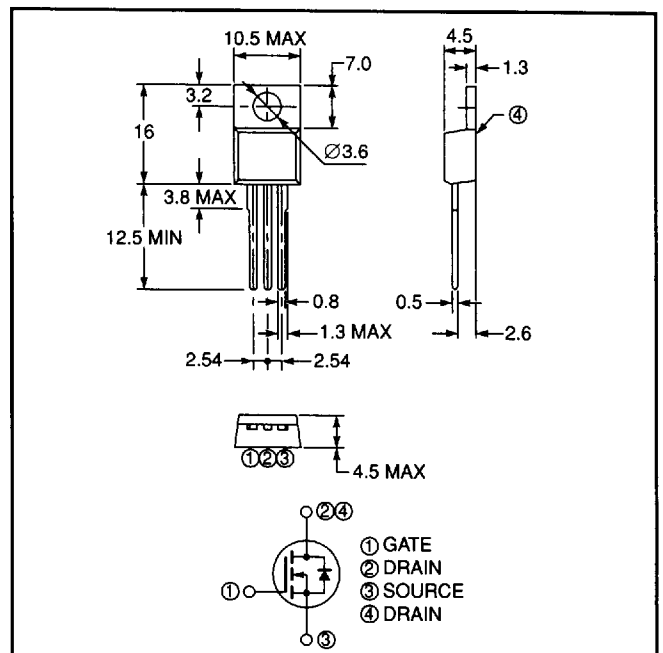
Device Outline Drawings

MP-3



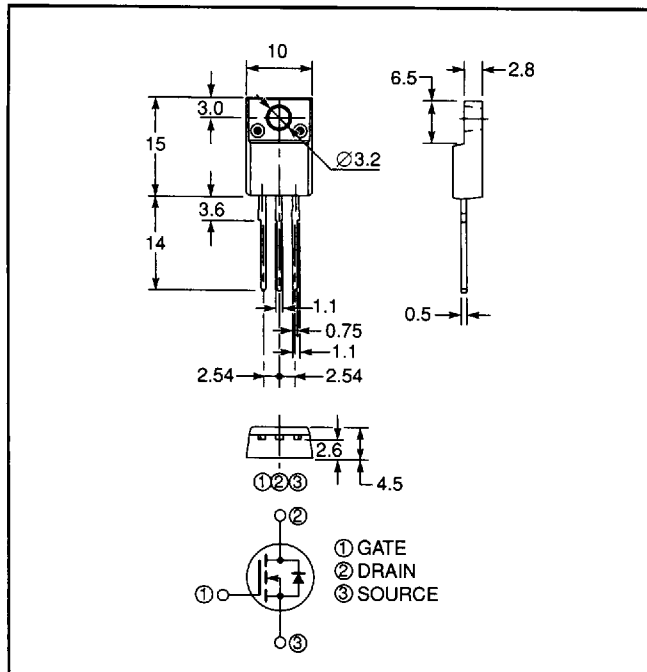
IGBT CT**AS-8
MOSFET FS**AS-8

TO-220



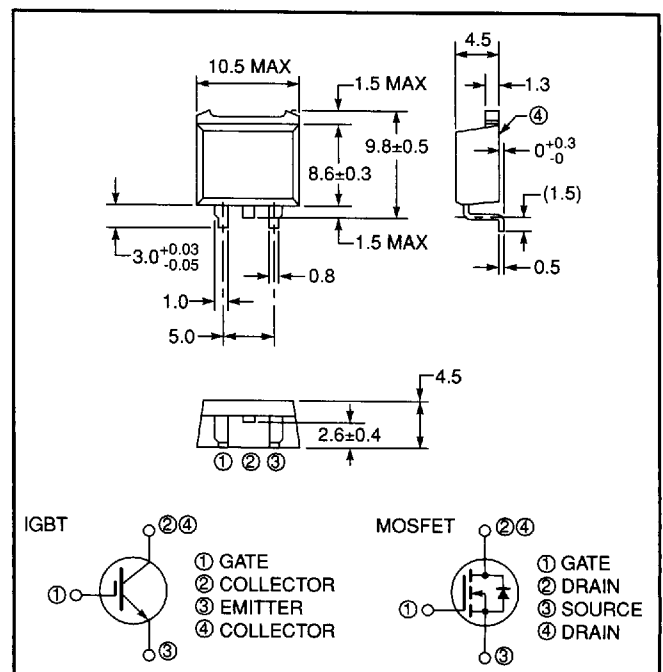
MOSFET FK**UM-**, FS**UM-**

TO-220FN



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

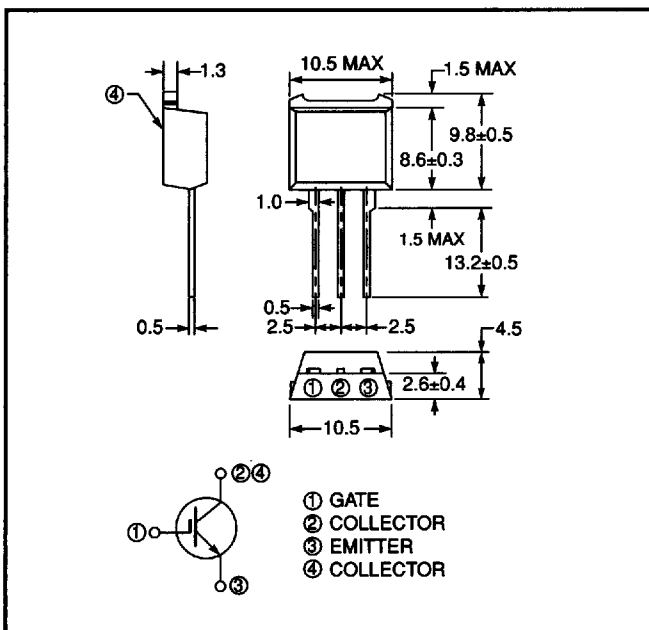
TO-220S



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

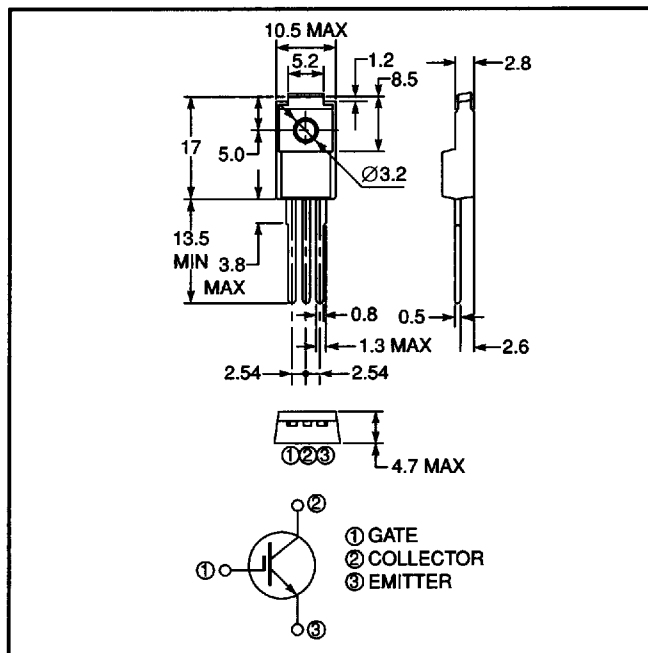
Device Outline Drawings

TO-220C



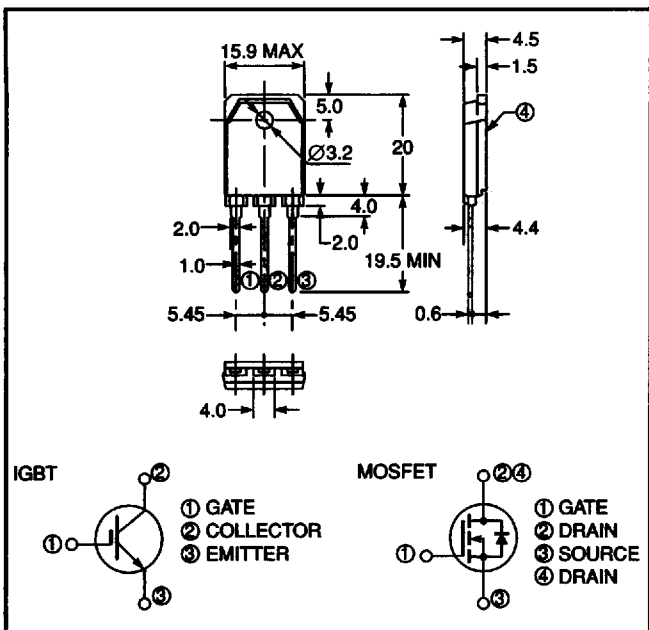
IGBT CT**VM-8

TO-220F



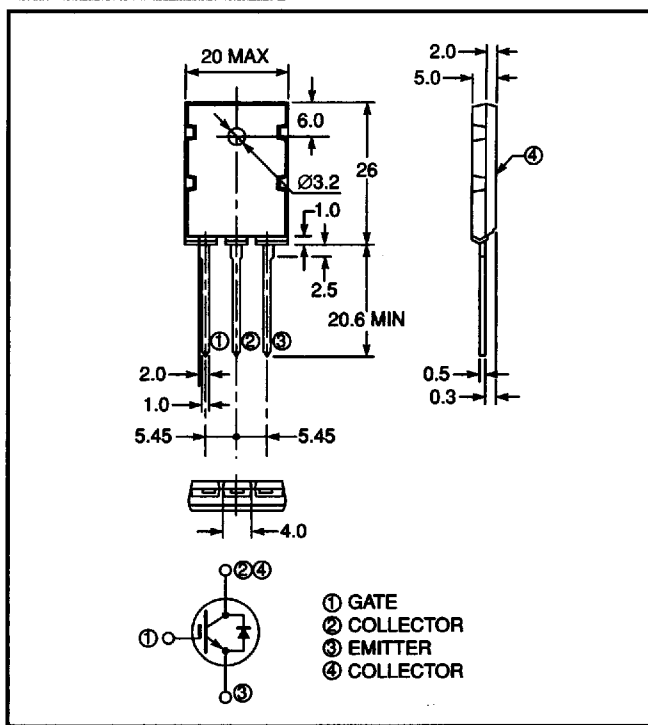
IGBT CT**TM-**

TO-3P



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

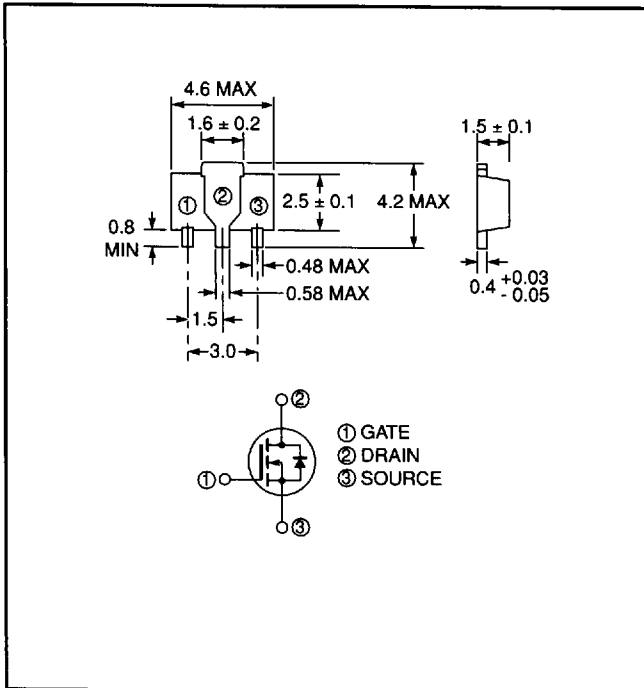
TO-3PL



IGBT CT**AM-*

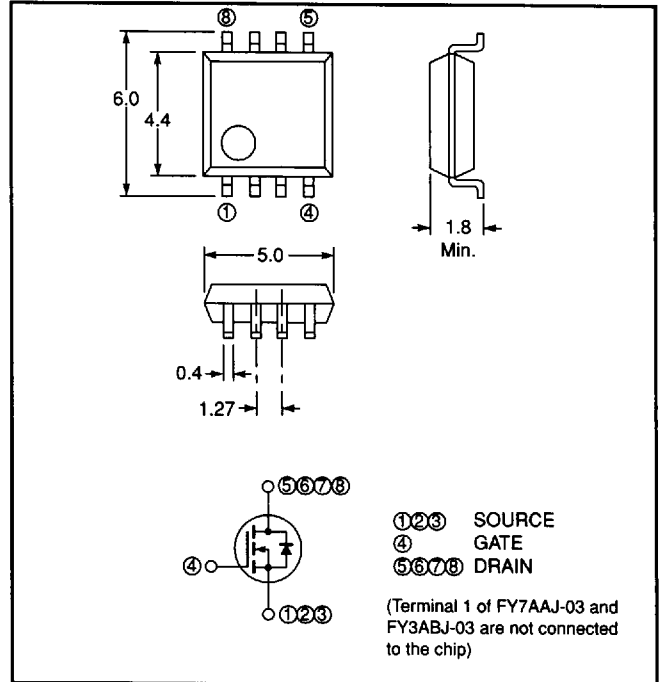
Device Outline Drawings

SOT-89



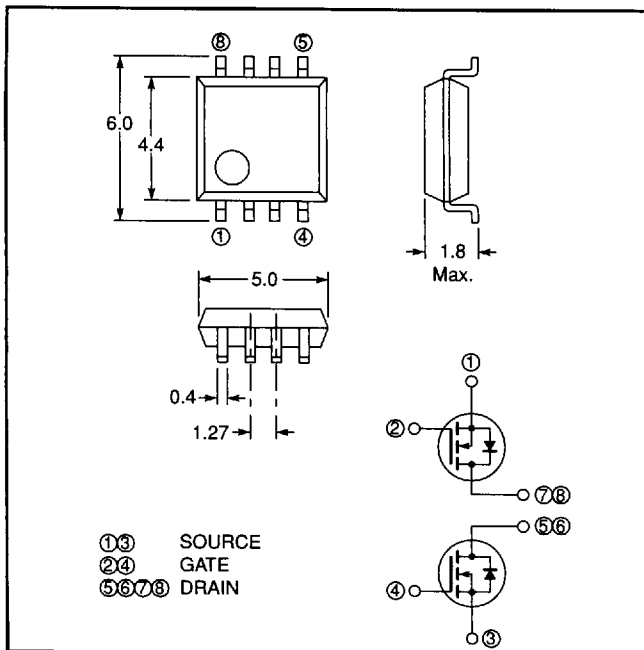
MOSFET FS**, FX**

SOP-8 (Single)



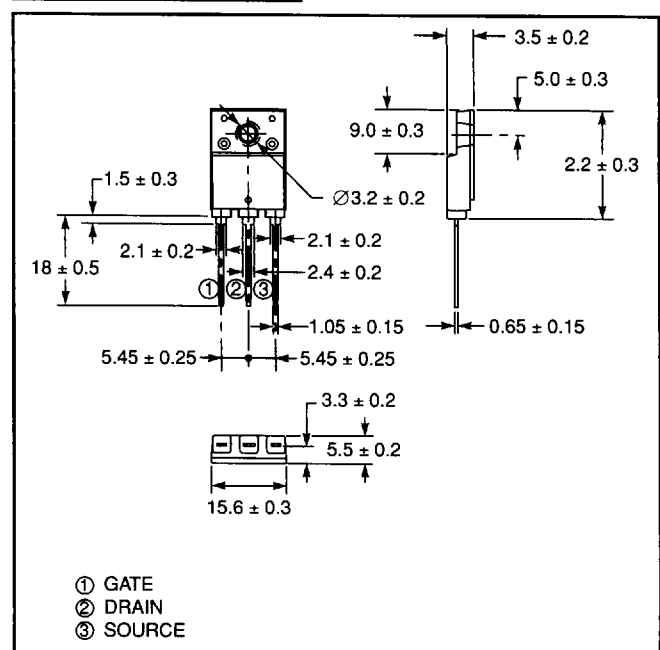
MOSFET FY**

SOP-8 (Dual)



MOSFET FY**

TO-3PF



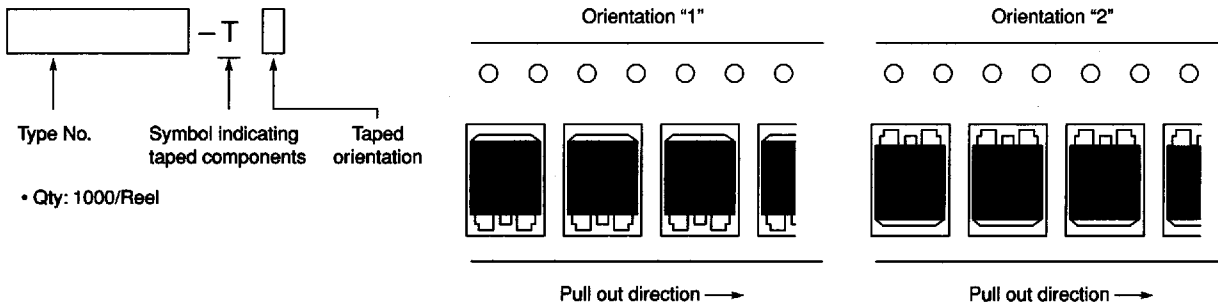
MOSFET FS**RM-**

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

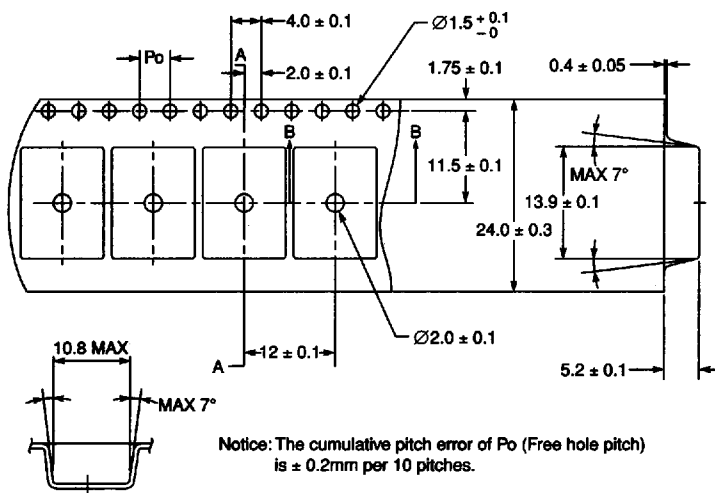
TO-220S Taping

(a) Marking

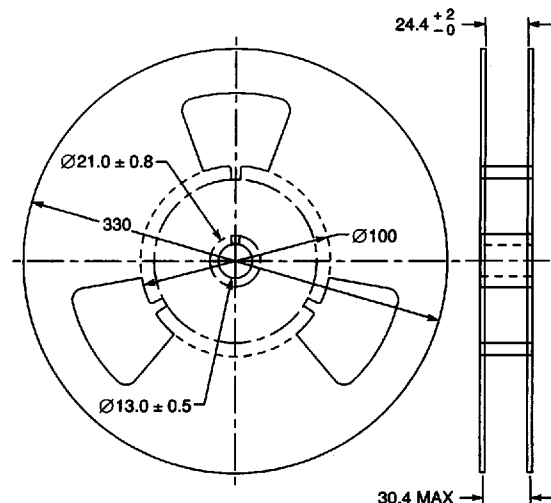


(b) Taping

• Tape Shape and Dimensions



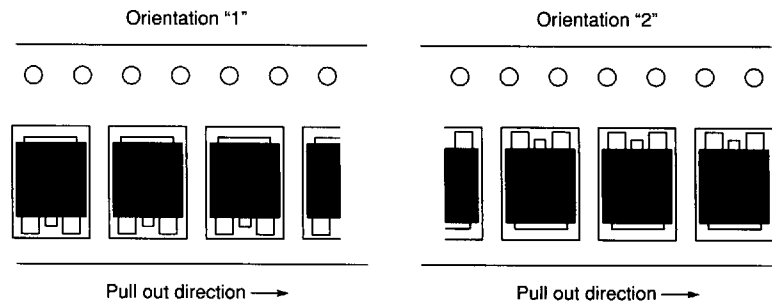
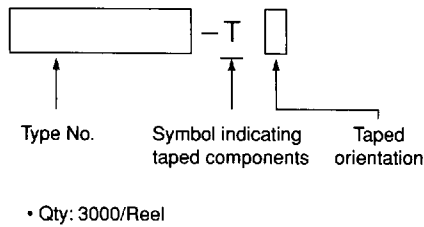
• Reel Shape and Dimensions



Packaging Information

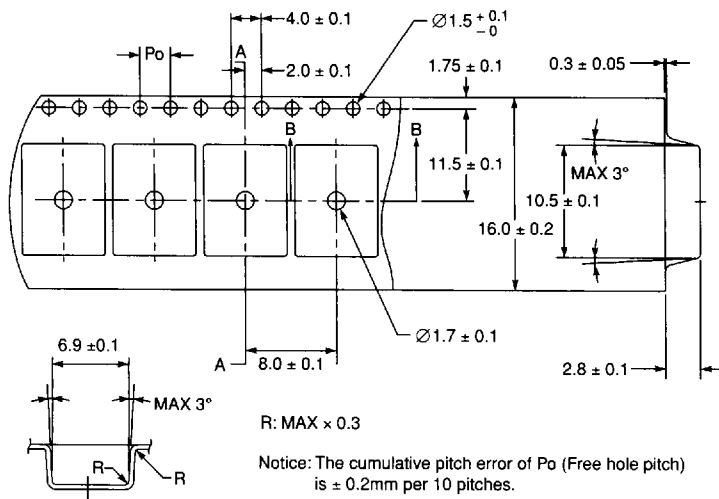
MP-3 Taping

(a) Marking

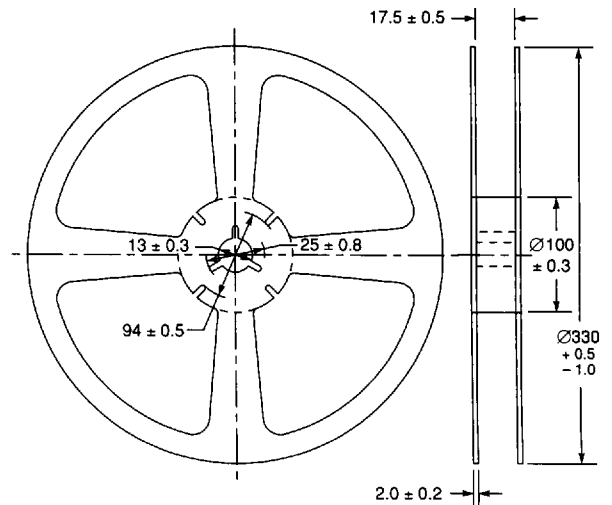


(b) Taping

• Tape Shape and Dimensions



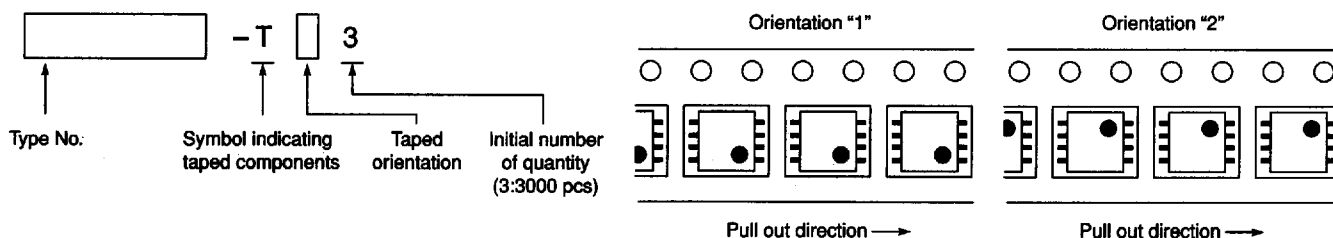
• Reel Shape and Dimensions



Packaging Information

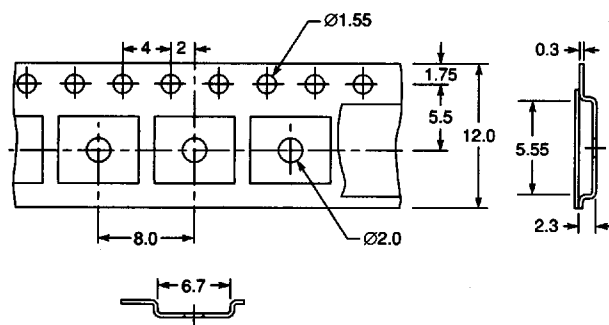
SOP-8 Taping

(a) Marking

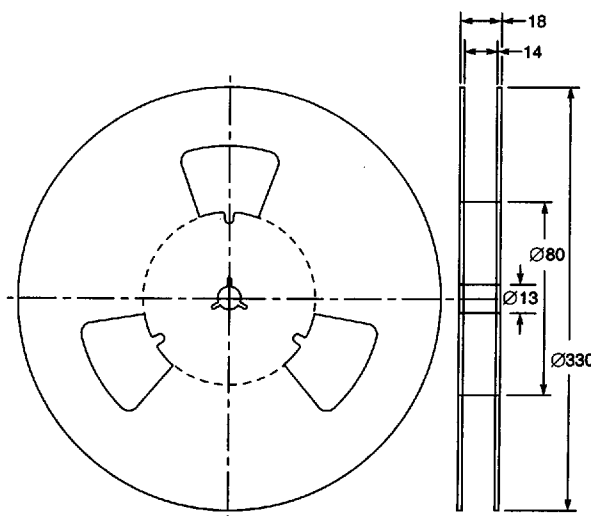


(b) Taping

- **Tape Shape and Dimensions**

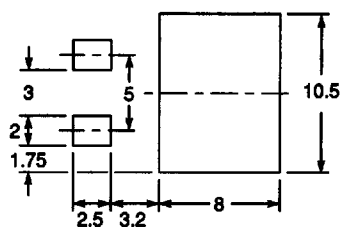


- **Reel Shape and Dimensions**

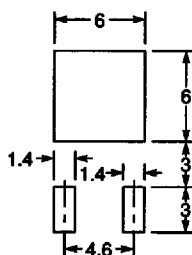


Recommended Mounting Pad

TO-220S Package



MP-3 Package



SOP-8 Package

