

Discrete MOSFET - Low Voltage Trench Gate 4.0V and 2.5V SOP-8 n-channel and 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.				
FY10AAJ-03	30	10	± 20	9	13.5	1.5	2850	SOP-8	33
FY7AAJ-03	30	7	± 20	23	30	1.5	1000	SOP-8	33
FY3ABJ-03	-30	-3	± 20	57	70	-2	2100	SOP-8	33
FY8ABJ-03	-30	-8	± 20	14	20	-2	3650	SOP-8	33
FY5ACH-03A	30	5	± 10	38	50	1.5	—	SOP-8	33
FY6ACH-02A	20	6	± 10	25	30	1	900	SOP-8	33

$r_{DS(on)}$ (m Ω) - shows value of on-resistance at $V_{GS} = 4V$

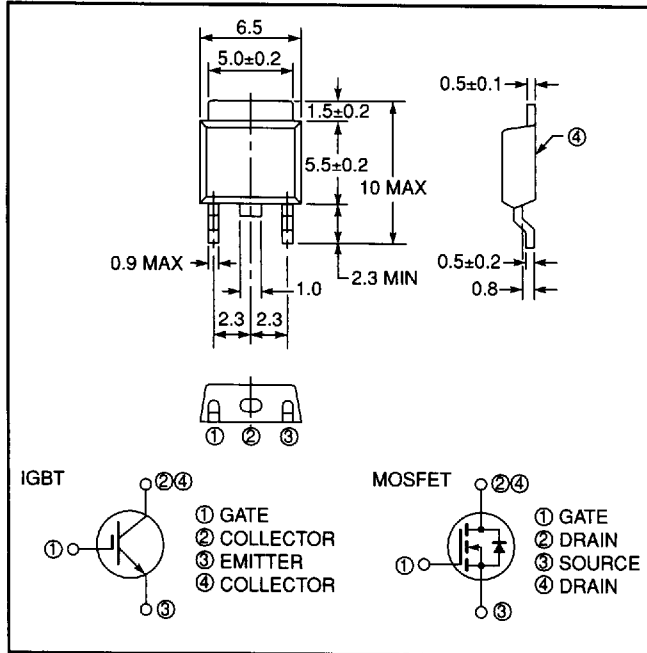
Discrete MOSFET - Medium Voltage FS Series MOSFETs (200V)

Device Number	Maximum Ratings, $T_c = 25^\circ\text{C}$			Electrical Characteristics				Package	
	V_{DS} (V)	I_D (A)	V_{GS} (+/- V)	$r_{DS(on)}$ (Ω)		$V_{GS(th)}$ (V)	C_{iss} (pF)	Outline	Page
				Typ.	Max.				
FS10KM-4A	200	10	± 20	0.4	0.52	3	650	TO-220FN	31
FS10UM-4A	200	10	± 20	0.4	0.52	3	650	TO-220	31
FS12KM-4A	200	12	± 20	0.3	0.4	3	700	TO-220FN	31
FS12UM-4A	200	12	± 20	0.3	0.4	3	700	TO-220	31
FS16KM-4A	200	16	± 20	0.2	0.25	3	1150	TO-220FN	31
FS16UM-4A	200	16	± 20	0.2	0.25	3	1150	TO-220	31
FS20KM-4A	200	20	± 20	0.14	0.18	3	1650	TO-220FN	31
FS20UM-4A	200	20	± 20	0.14	0.18	3	1650	TO-220	31
FS20VS-4A	200	20	± 20	0.14	0.18	3	1650	TO-220S	31
FS20SM-4A	200	20	± 20	0.14	0.18	3	1650	TO-3P	31

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

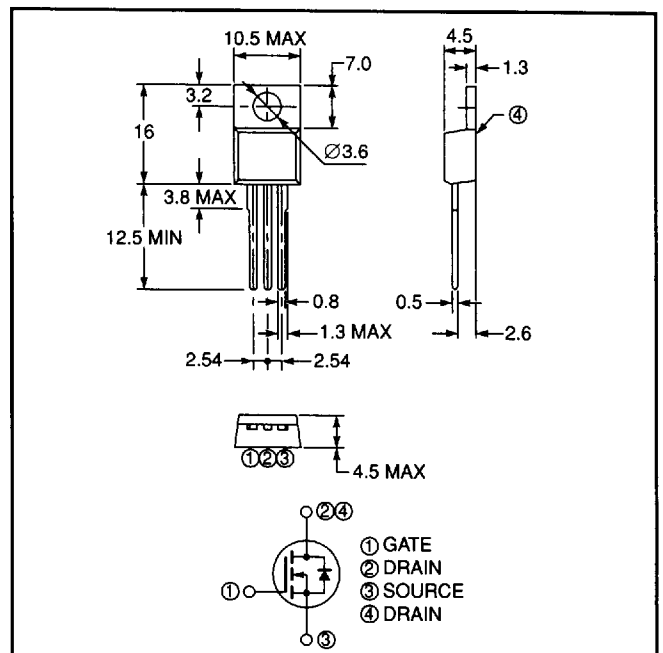
Device Outline Drawings

MP-3



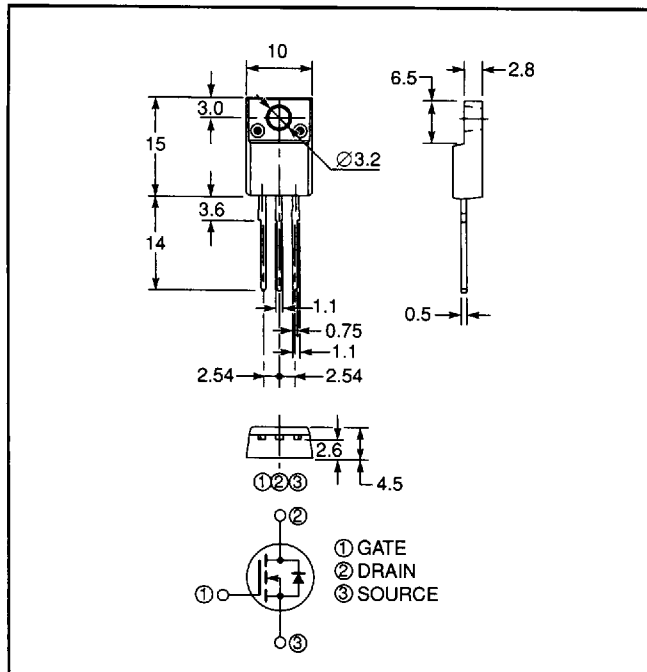
IGBT CT**AS-8
MOSFET FS**AS-8

TO-220



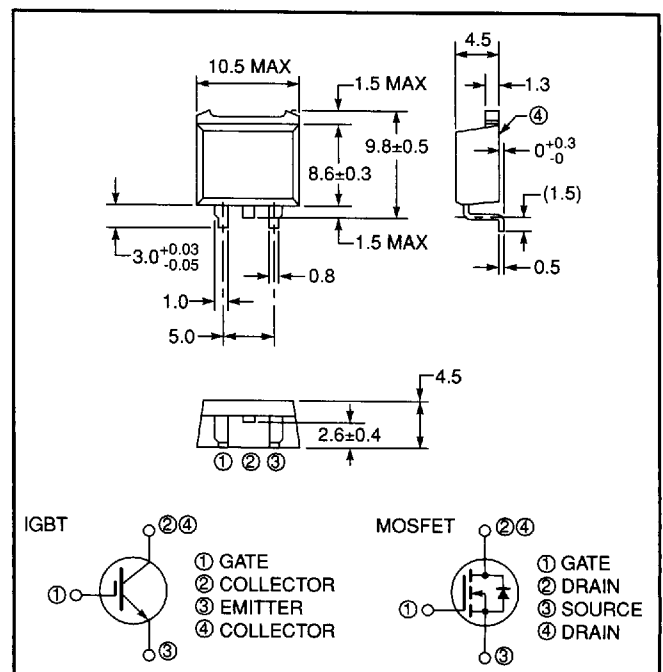
MOSFET FK**UM-**, FS**UM-**

TO-220FN



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

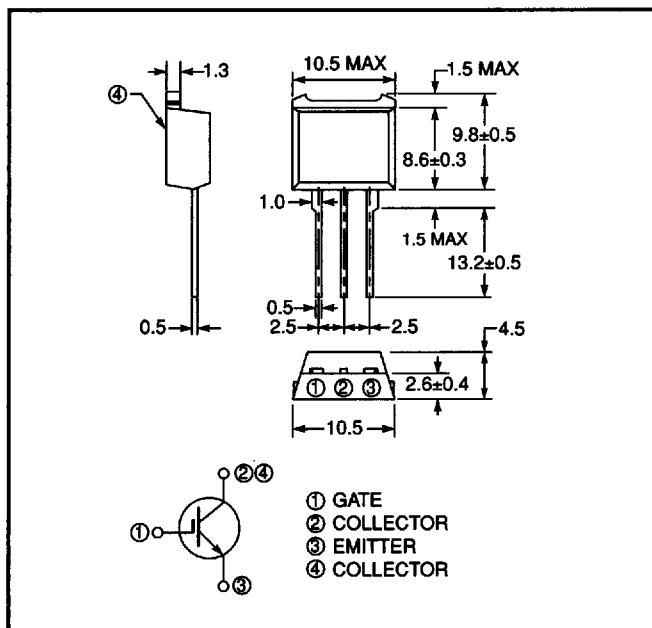
TO-220S



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

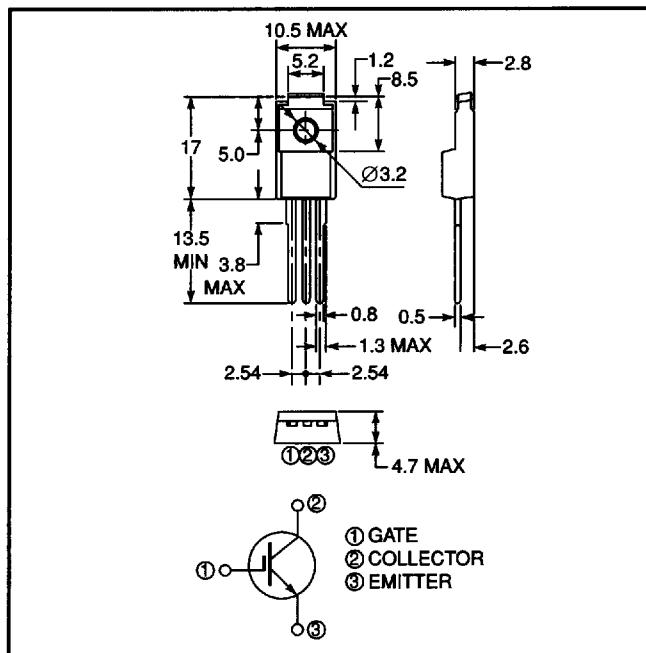
Device Outline Drawings

TO-220C



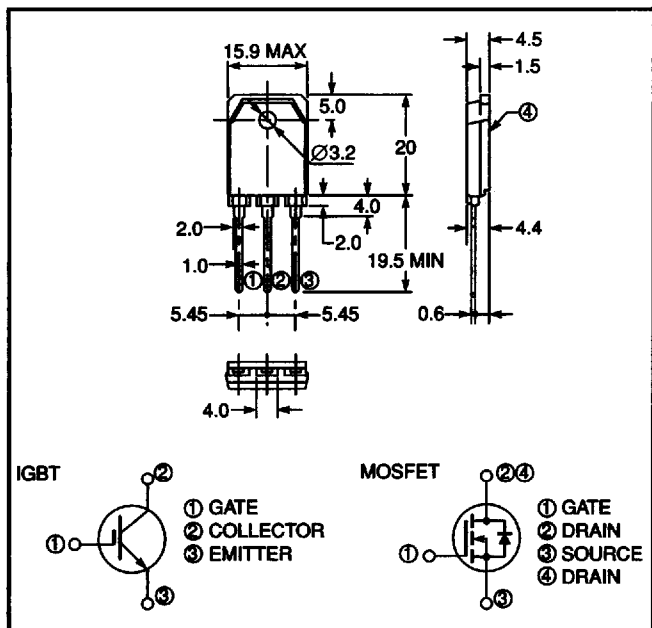
IGBT CT**VM-8

TO-220F



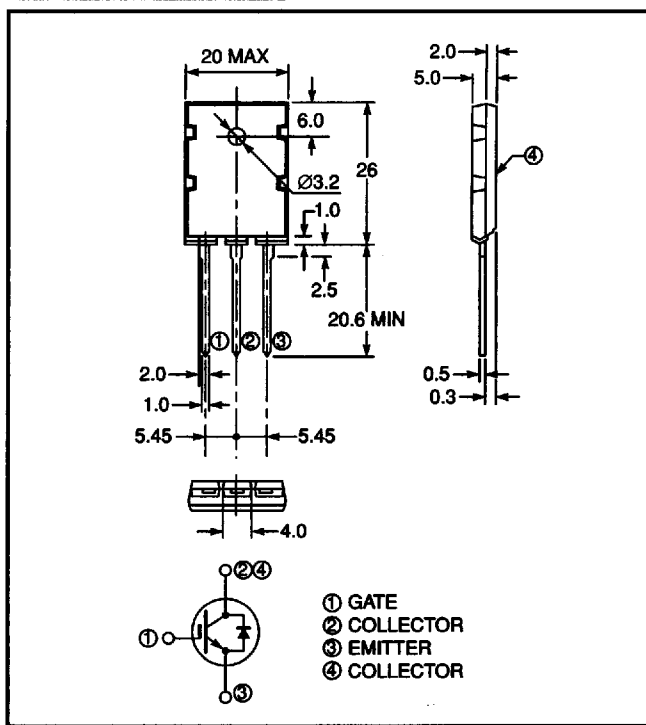
IGBT CT**TM-**

TO-3P



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

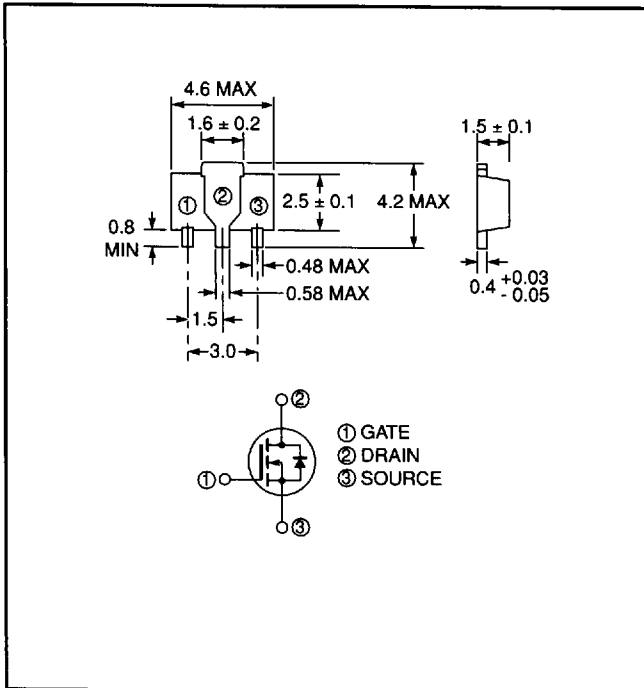
TO-3PL



IGBT CT**AM-*

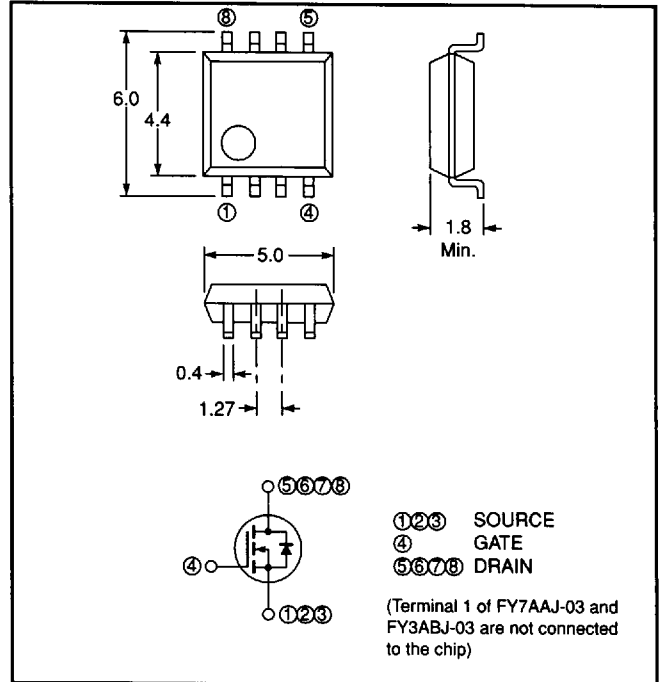
Device Outline Drawings

SOT-89



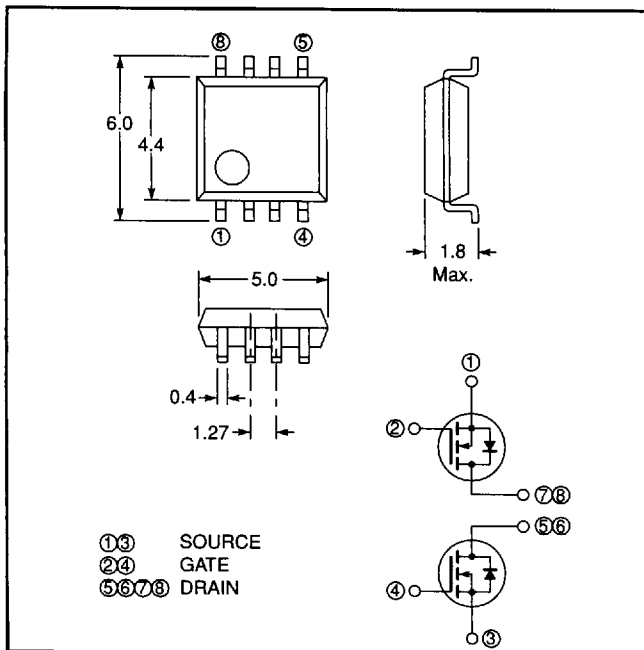
MOSFET FS**, FX**

SOP-8 (Single)



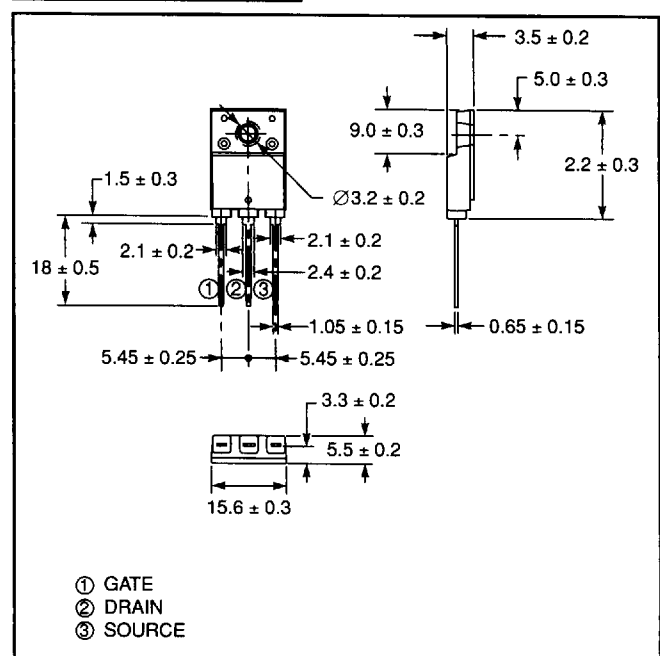
MOSFET FY**

SOP-8 (Dual)



MOSFET FY**

TO-3PF



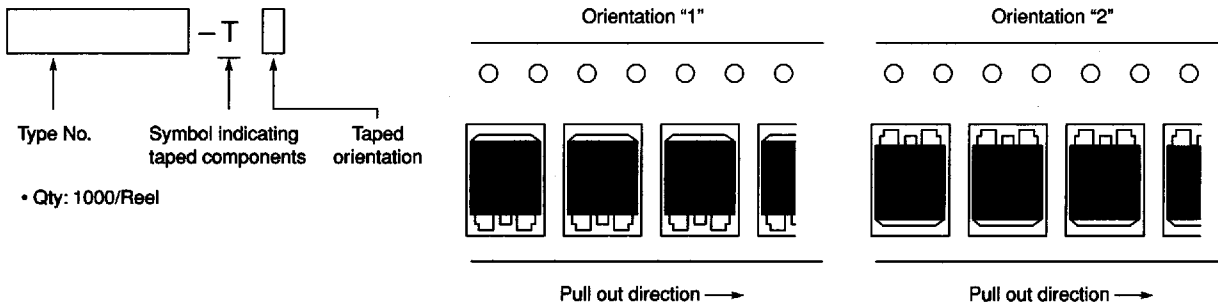
MOSFET FS**RM**

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

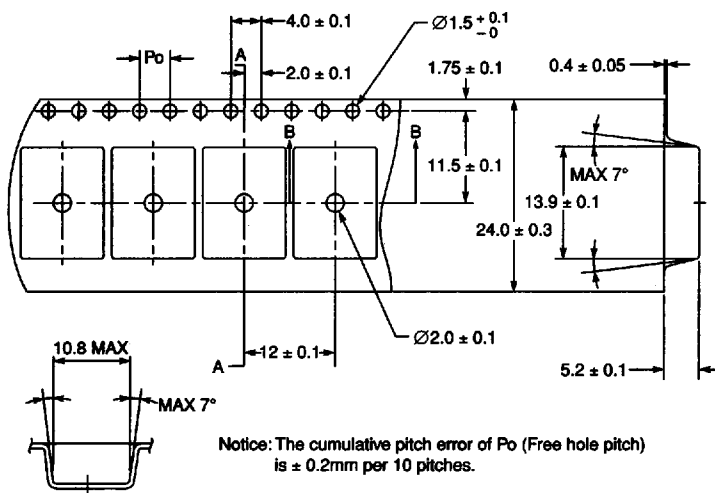
TO-220S Taping

(a) Marking

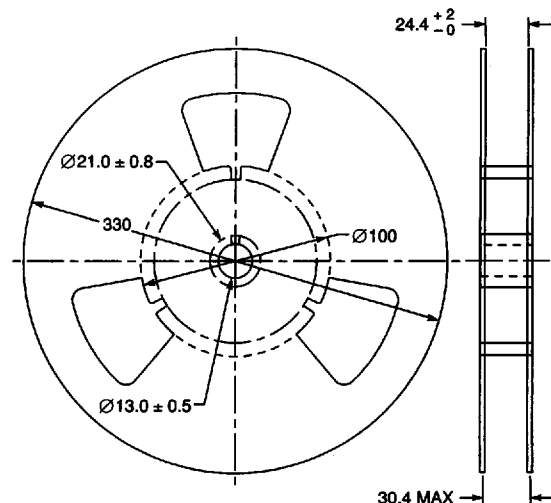


(b) Taping

• Tape Shape and Dimensions



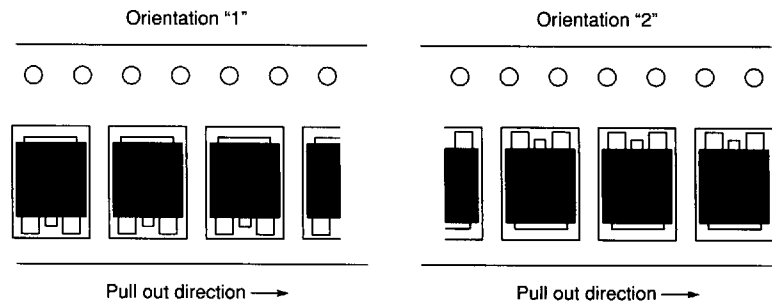
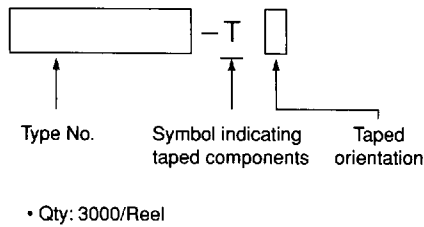
• Reel Shape and Dimensions



Packaging Information

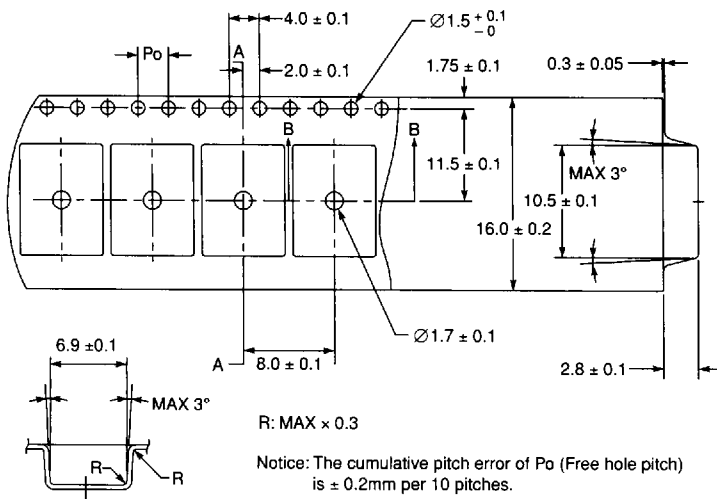
MP-3 Taping

(a) Marking

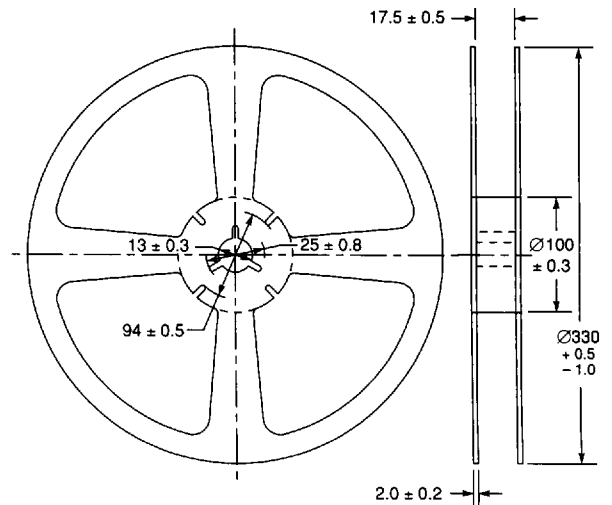


(b) Taping

• Tape Shape and Dimensions



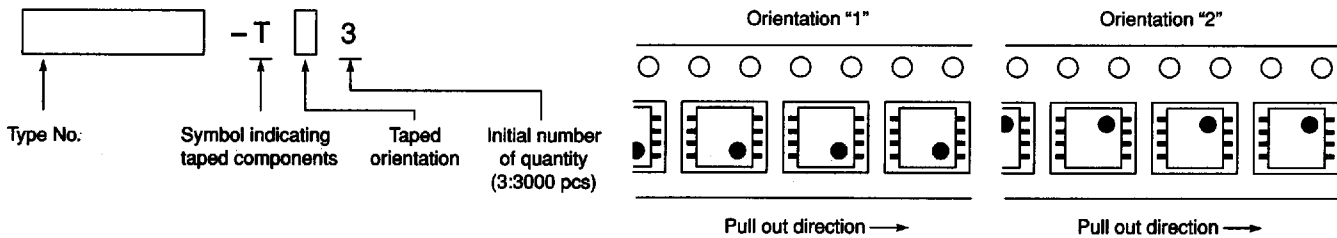
• Reel Shape and Dimensions



Packaging Information

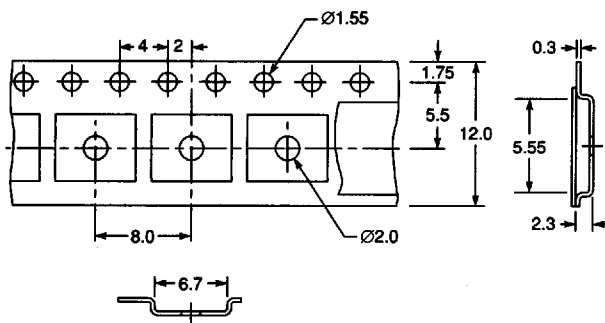
SOP-8 Taping

(a) Marking

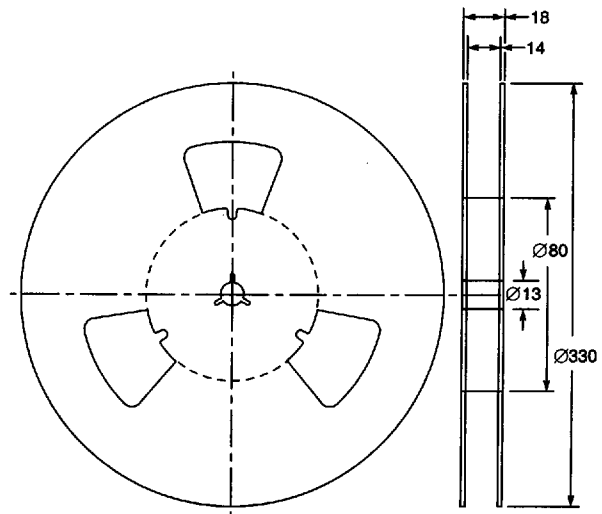


(b) Taping

• Tape Shape and Dimensions

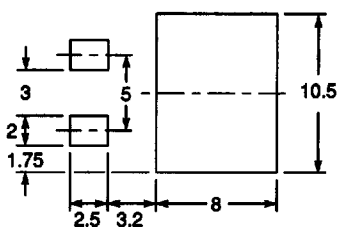


• Reel Shape and Dimensions

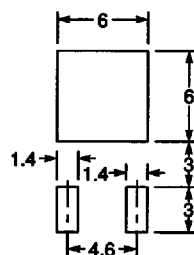


Recommended Mounting Pad

TO-220S Package



MP-3 Package



SOP-8 Package

