Discrete MOSFET - Low Voltage Trench Gate (continued)

2.5V Driver Voltage n-channel MOSFETs

Device Number	Maximum Ratings, T_c = 25°C				Electrical Characteristics				Package	
	V_{DSS}	I_D	P_D	V_{GSS}	$r_{DS(on)}$, (mΩ)		$V_{GS(th)}$	C_{ISS}		
	(V)	(A)	(W)	(V)	Typ.	Max.	(V)	(pF)	Outline	Page
FS5ASH-2	100	5	20	±10	315	440	0.8	540	MP-3	31
FS5UMH-2	100	5	20	±10	315	440	0.8	540	TO-220	31
FS5VSH-2	100	5	20	±10	315	440	0.8	540	TO-220S	31
FS5KMH-2	100	5	15	±10	315	440	0.8	540	TO-220FN	31
FS10ASH-2	100	10	30	±10	158	210	0.8	1150	MP-3	31
FS10UMH-2	100	10	30	±10	158	210	0.8	1150	TO-220	31
FS10VSH-2	100	10	30	±10	158	210	0.8	1150	TO-220S	31
FS10KMH-2	100	10	20	±10	158	210	0.8	1150	TO-220FN	31
FS10SMH-2	100	10	30	±10	158	210	0.8	1150	TO-3P	32
FS30ASH-2	100	30	35	±10	66	93	0.8	2000	MP-3	31
FS30UMH-2	100	30	45	±10	66	93	0.8	2000	TO-220	31
FS30VSH-2	100	30	45	±10	66	93	0.8	2000	TO-220S	31
FS30KMH-2	100	30	25	±10	66	93	0.8	2000	TO-220FN	31
FS30SMH-2	100	30	45	±10	66	93	0.8	2000	TO-3P	32
FS50UMH-2	100	50	70	±10	38	52	0.8	4000	TO-220	31
FS50VSH-2	100	50	70	±10	38	52	0.8	4000	TO-220S	31
FS50KMH-2	100	50	30	±10	38	52	0.8	4000	TO-220FN	31
FS50SMH-2	100	50	70	±10	38	52	0.8	4000	TO-3P	32
FS70UMH-2	100	70	125	±10	10	19	0.8	11000	TO-220	31
FS70VSH-2	100	70	125	±10	10	19	0.8	11000	TO-220S	31
FS70KMH-2	100	70	35	±10	10	19	0.8	11000	TO-220FN	31
FS70SMH-2	100	70	150	±10	10	19	0.8	11000	TO-3P	32
FS2ASH-3	150	2	20	±10	580	750	0.8	540	MP-3	31
FS2UMH-3	150	2	20	±10	580	750	0.8	540	TO-220	31
FS2VSH-3	150	2	20	±10	580	750	0.8	540	TO-220S	31
FS2KMH-3	150	2	15	±10	580	750	0.8	540	TO-220FN	31
FS5ASH-3	150	5	30	±10	268	350	0.8	1200	MP-3	31
FS5UMH-3	150	5	30	±10	268	350	0.8	1200	TO-220	31
FS5VSH-3	150	5	30	±10	268	350	0.8	1200	TO-220S	31
FS5KMH-3	150	5	20	±10	268	350	0.8	1200	TO-220FN	31
FS5SMH-3	150	5	30	±10	268	350	0.8	1200	TO-3P	32
FS10ASH-3	150	10	35	±10	120	160	0.8	2000	MP-3	31
FS10UMH-3	150	10	45	±10	120	160	0.8	2000	TO-220	31
FS10VSH-3	150	10	45	±10	120	160	0.8	2000	TO-220S	31
FS10KMH-3	150	10	25	±10	120	160	0.8	2000	TO-220FN	31
FS10SMH-3	150	10	45	±10	120	160	0.8	2000	TO-3P	32
FS30UMH-3	150	30	70	±10	67	87	0.8	4000	TO-220	31
FS30VSH-3	150	30	70	±10	67	87	0.8	4000	TO-220S	31
FS30KMH-3	150	30	30	±10	67	87	0.8	4000	TO-220FN	31
FS30SMH-3	150	30	70	±10	67	87	0.8	4000	TO-3P	32
FS50UMH-3	150	50	125	±10	18	30	0.8	11000	TO-220	31
FS50VSH-3	150	50	125	±10	18	30	0.8	11000	TO-220S	31
FS50KMH-3	150	50	35	±10	18	30	0.8	11000	TO-220FN	31
FS50SMH-3	150	50	150	±10	18	30	0.8	11000	TO-3P	32

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

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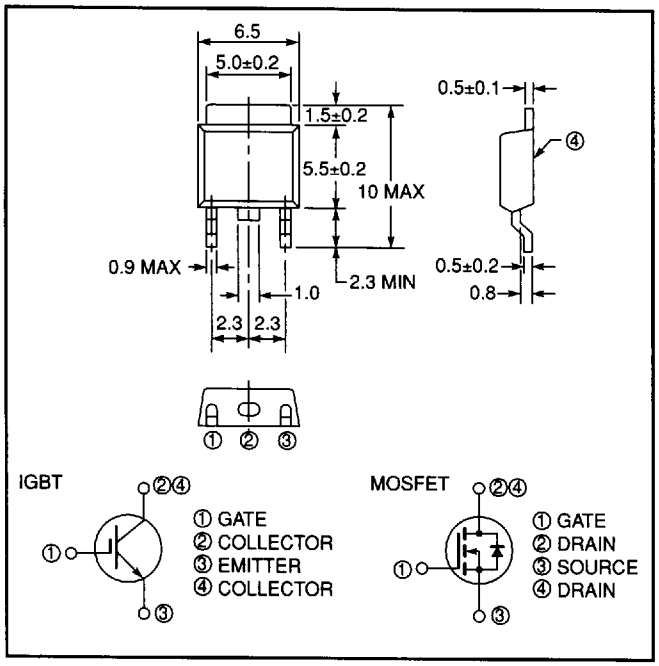
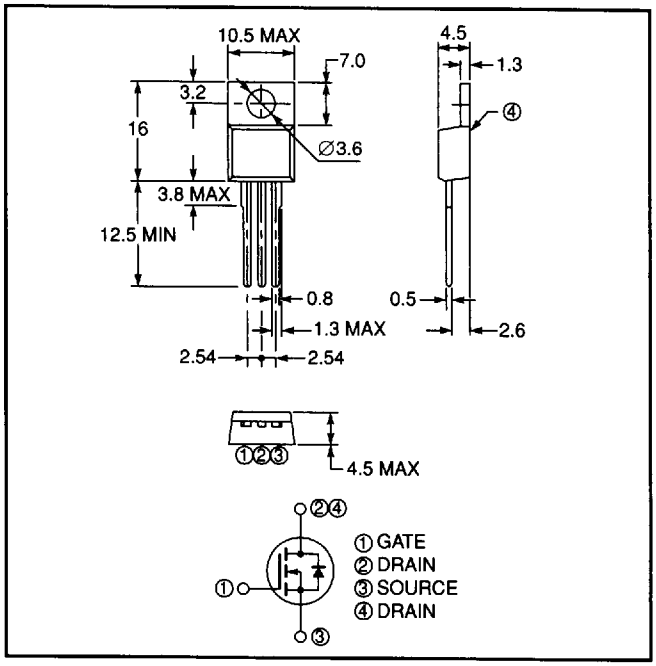
Device Outline Drawings

MP-3



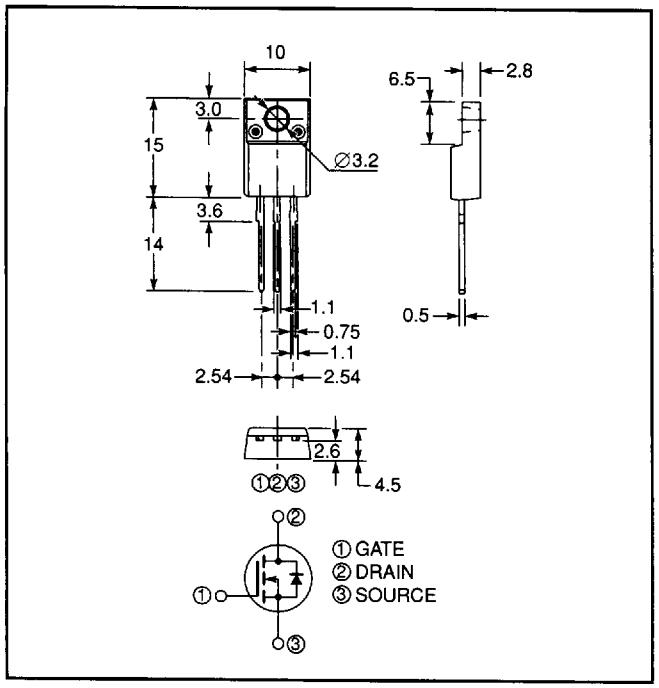
IGBT **CT**AS-8**
MOSFET **FS**AS-8**

TO-220



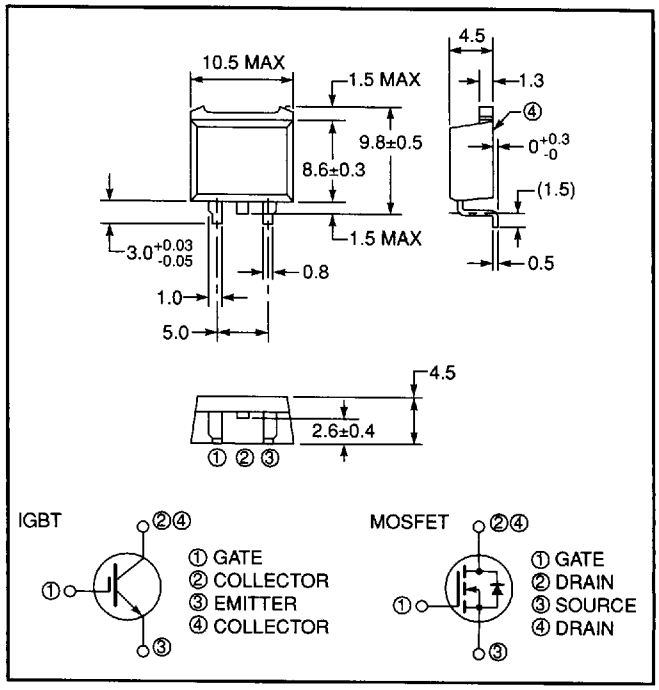
MOSFET **FK**UM-**, FS**UM-**

TO-220FN



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

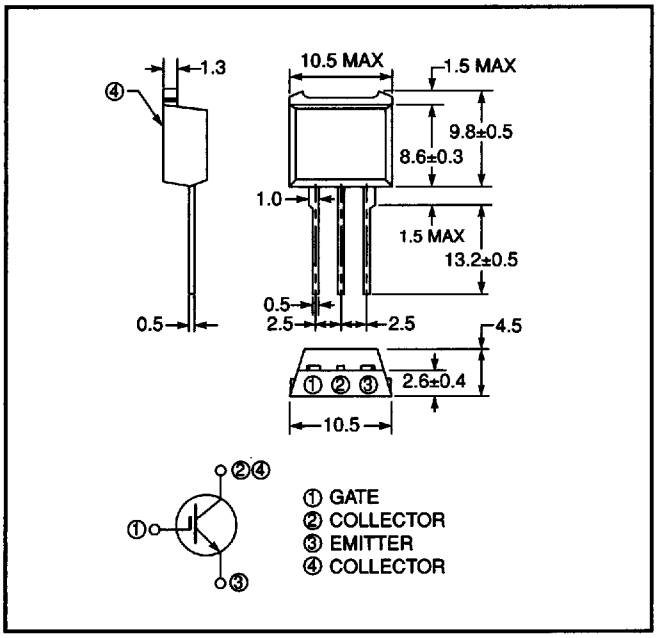
TO-220S



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

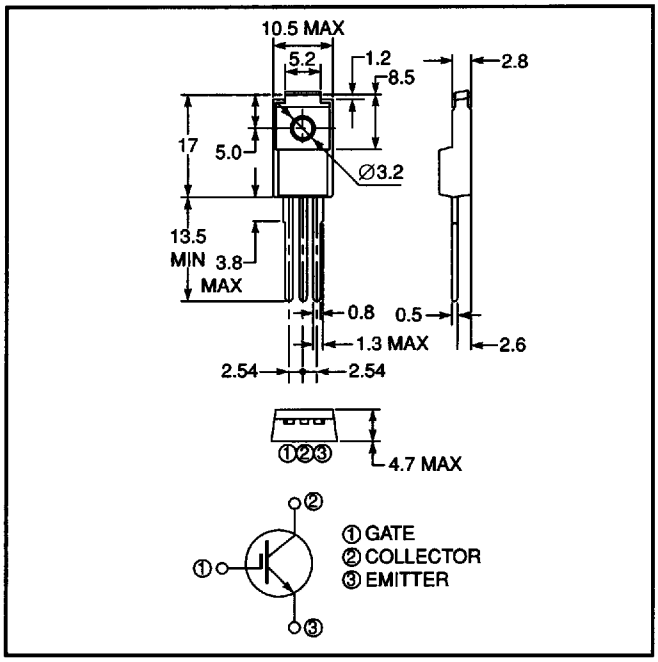
Device Outline Drawings

TO-220C



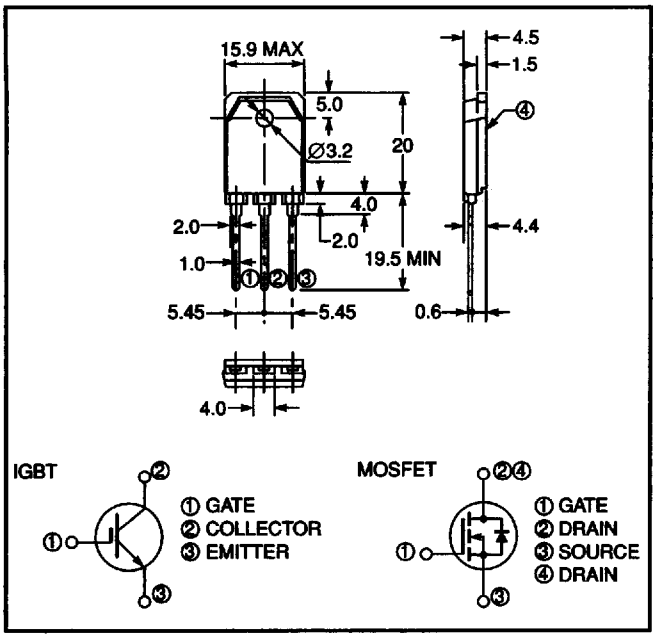
IGBT **CT**VM-8**

TO-220F



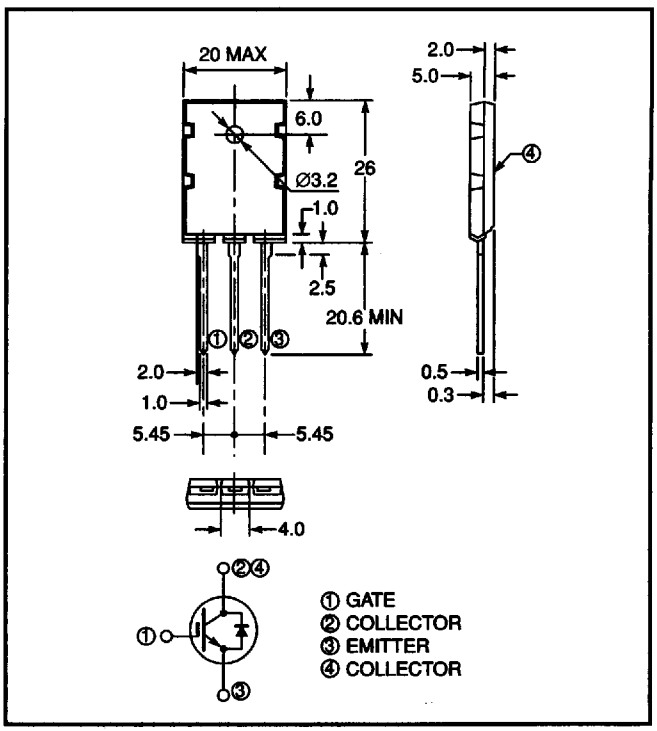
IGBT **CT**TM-**

TO-3P



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

TO-3PL



IGBT **CT**AM-**

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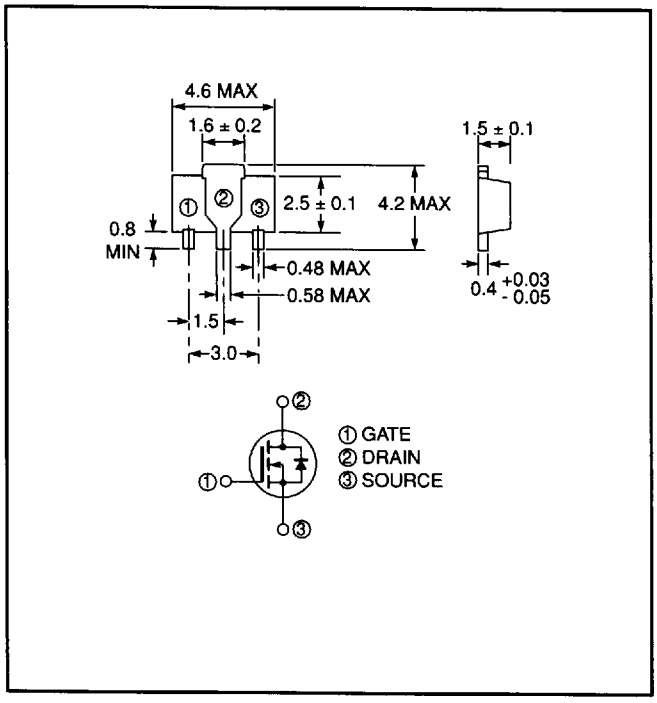
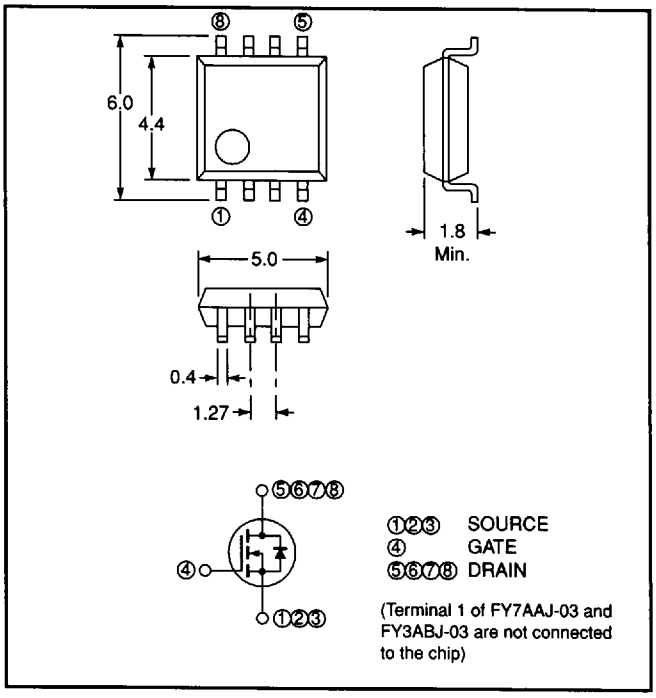
Device Outline Drawings

SOT-89



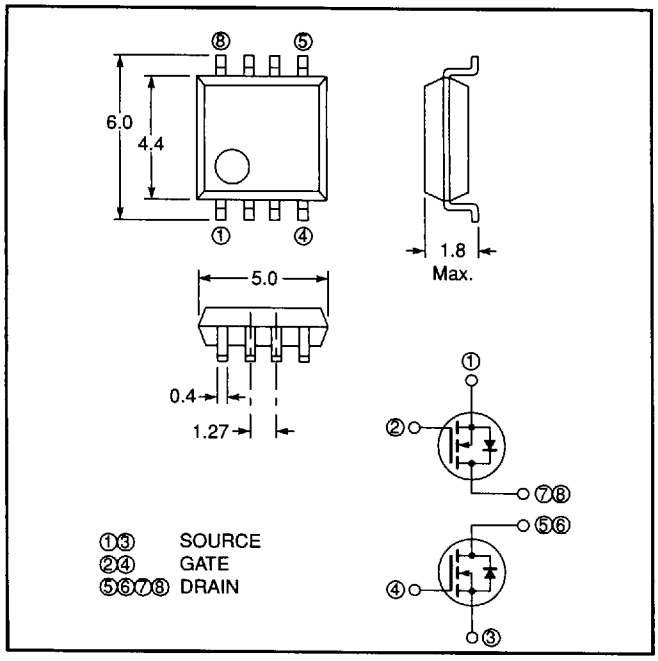
MOSFET FS, FX****

SOP-8 (Single)



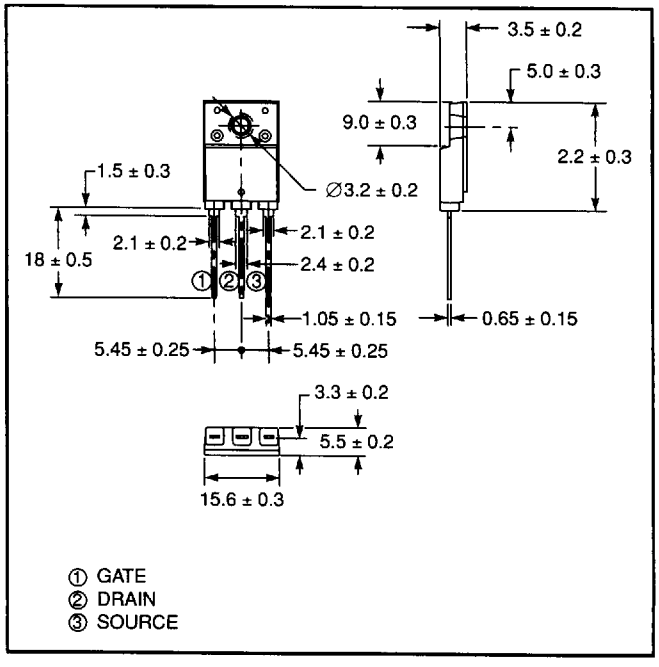
MOSFET FY**

SOP-8 (Dual)



MOSFET FY**

TO-3PF



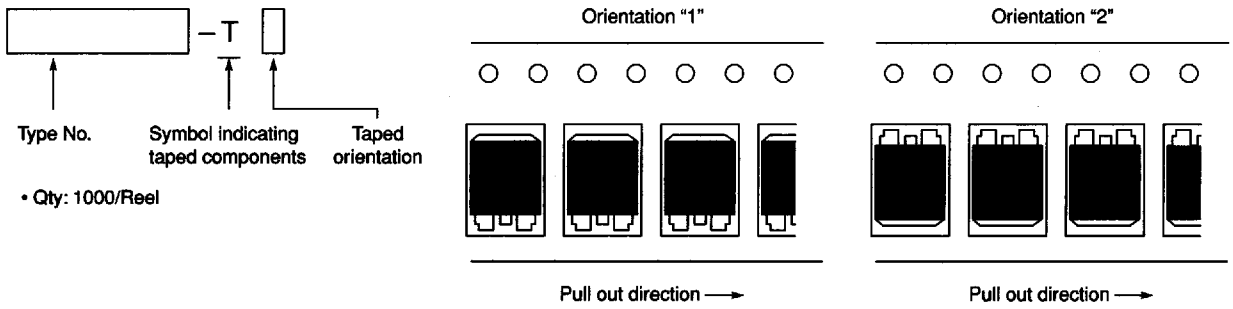
MOSFET FSRM-****

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

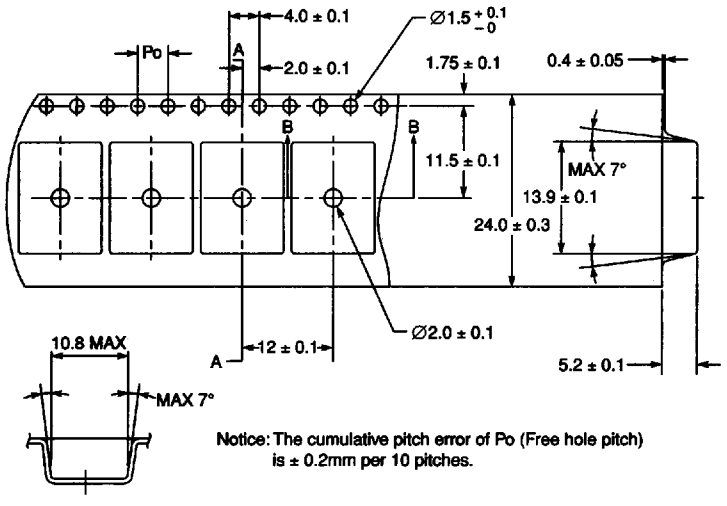
TO-220S Taping

(a) Marking



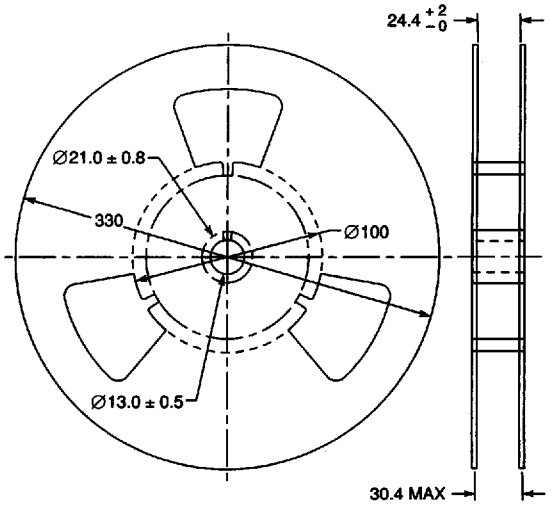
(b) Taping

- Tape Shape and Dimensions



Notice: The cumulative pitch error of Po (Free hole pitch) is ± 0.2mm per 10 pitches.

- Reel Shape and Dimensions



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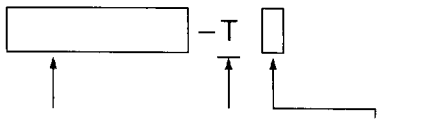
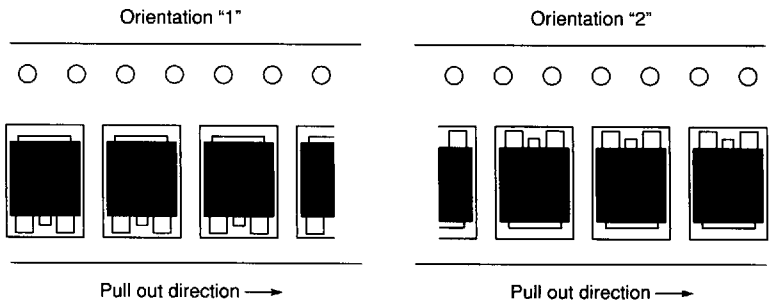
Packaging Information

MP-3 Taping

(a) Marking

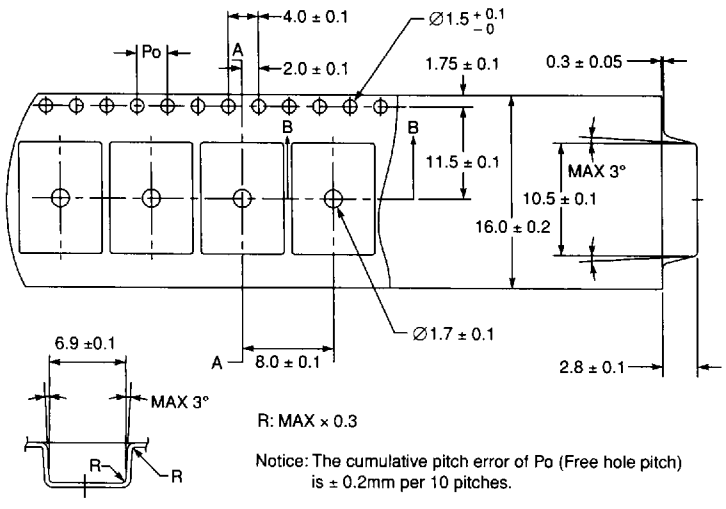


• Qty: 3000/Reel



(b) Taping

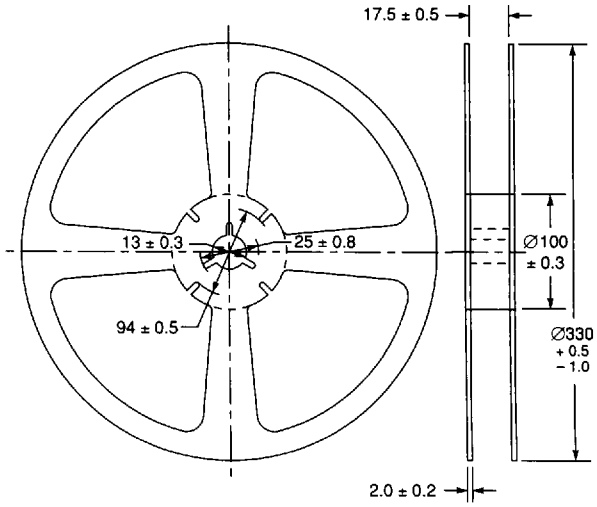
• Tape Shape and Dimensions



R: MAX × 0.3

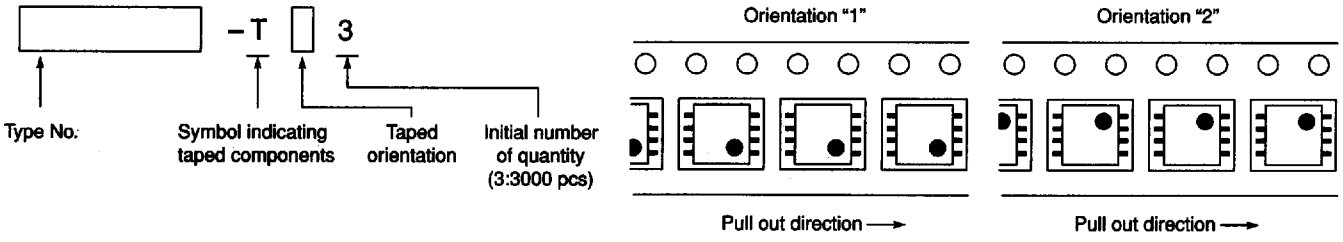
Notice: The cumulative pitch error of Po (Free hole pitch) is ± 0.2mm per 10 pitches.

• Reel Shape and Dimensions



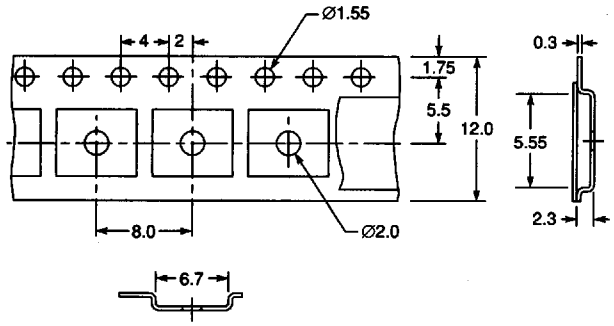
SOP-8 Taping

(a) Marking

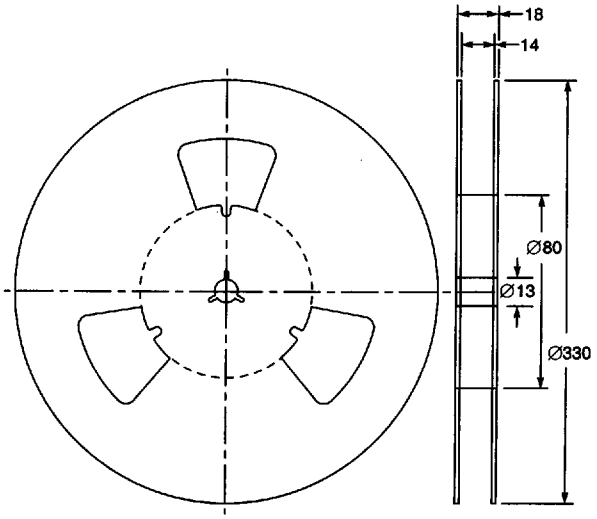


(b) Taping

- Tape Shape and Dimensions

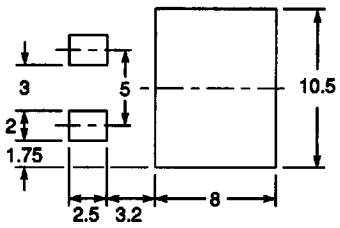


- Reel Shape and Dimensions

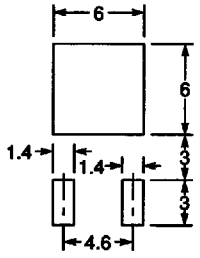


Recommended Mounting Pad

TO-220S Package



MP-3 Package



SOP-8 Package