

# 1.75x4mm/2x4mm Rectangular LED Lamps

## FEATURES

- All plastic mold type
- Low drive current
- High intensity light emission
- Choice of six colors/materials

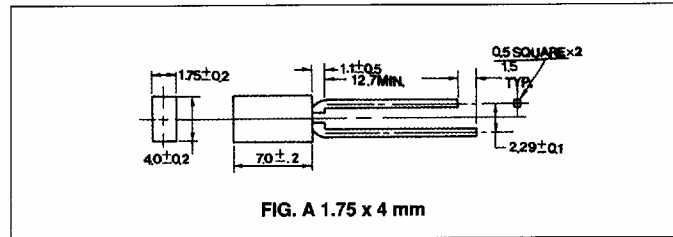


FIG. A 1.75 x 4 mm

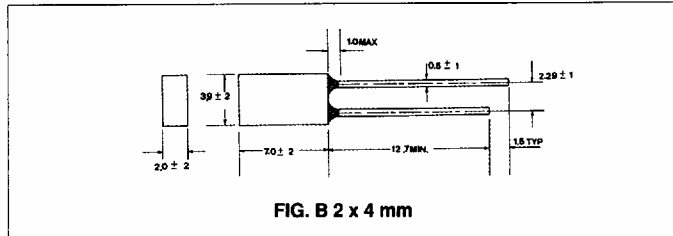


FIG. B 2 x 4 mm

## MAXIMUM RATINGS (TA = 25°C)

FIG	PART NO.	FORWARD CURRENT (I <sub>F</sub> ) (mA)	REVERSE VOLTAGE (V <sub>R</sub> ) (V)	POWER DISSIPATION (P <sub>D</sub> ) (mW)	OPERATING TEMPERATURE (T <sub>opr</sub> ) (°C)	STORAGE TEMPERATURE (T <sub>stg</sub> ) (°C)
A	MT1116-R	30	3.0	100	-25~+85	-25~+100
A	MT1116-RG	30	5.0	85	-25~+85	-25~+100
A	MT2116-G	30	5.0	85	-25~+85	-25~+100
A	MT3116-Y	30	5.0	85	-25~+85	-25~+100
A	MT4116-O	30	5.0	85	-25~+85	-25~+100
A	MT4116-HR	30	5.0	85	-25~+85	-25~+100
B	MT1189-R	30	3.0	100	-25~+85	-25~+100
B	MT1189-RG	30	5.0	85	-25~+85	-25~+100
B	MT2189-G	30	5.0	85	-25~+85	-25~+100
B	MT3189-Y	30	5.0	85	-25~+85	-25~+100
B	MT4189-O	30	5.0	85	-25~+85	-25~+100
B	MT4189-HR	30	5.0	85	-25~+85	-25~+100

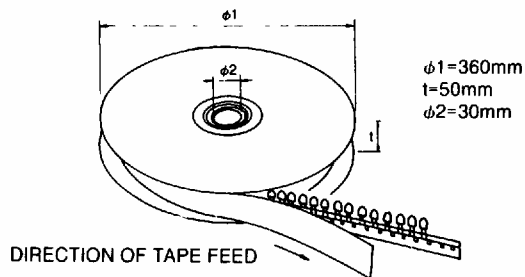
## OPTO-ELECTRICAL CHARACTERISTICS (TA = 25°C)

FIG	PART NO.	MATERIAL	LENS COLOR	VIEWING ANGLE	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE (V)			REVERSE CURRENT		PEAK WAVELENGTH
				typ.	min.	typ.	@mA	typ.	max.	@mA	μA	V <sub>r</sub>	nm
A	MT1116-R	GaAsP/GaAs	Red Diff	74°	.2	.6	10	1.7	2.0	20	100	3	655
A	MT1116-RG	GaP/GaP	Red Diff	74°	.4	.9	10	2.1	3.0	20	100	5	700
A	MT2116-G	GaP/GaP	Green Diff	74°	1.0	2.4	10	2.1	3.0	20	100	5	567
A	MT3116-Y	GaAsP/GaP	Yellow Diff	74°	.8	1.9	10	2.1	3.0	20	100	5	585
A	MT4116-O	GaAsP/GaP	Orange Diff	74°	1.1	2.7	10	2.1	3.0	20	100	5	635
A	MT4116-HR	GaAsP/GaP	Red Diff	74°	1.1	2.7	10	2.1	3.0	20	100	5	635
B	MT1189-R	GaAsP/GaAs	Red Diff	82°	.3	.8	10	1.7	2.0	20	100	3	655
B	MT1189-RG	GaP/GaP	Red Diff	82°	.5	1.2	10	2.1	3.0	20	100	5	700
B	MT2189-G	GaP/GaP	Green Diff	82°	1.2	3.1	10	2.1	3.0	20	100	5	567
B	MT3189-Y	GaAsP/GaP	Yellow Diff	82°	1.0	2.6	10	2.1	3.0	20	100	5	585
B	MT4189-O	GaAsP/GaP	Orange Diff	82°	1.4	3.6	10	2.1	3.0	20	100	5	635
B	MT4189-HR	GaAsP/GaP	Red Diff	82°	1.4	3.6	10	2.1	3.0	20	100	5	635

# APPLICATION NOTES

## [4] Packaging Reel Packaging

### a) Reel type



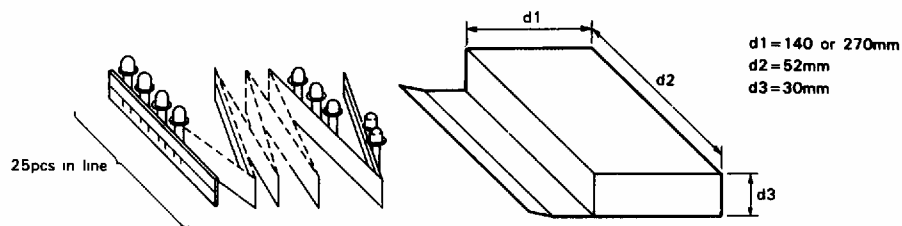
### Content

LED Type	Quantity/Reel
$\phi 3$ Series	2000 pcs
$\phi 5$ Series	1000 pcs

T-1 and T-1 3/4 packages

\*Lamps with external shapes other than those above are also available. Please consult Marktech.

### b) Zigzag wound tape



At tape beginning and end, there is additional space for 4 pcs or more

### Content

LED Type	Quantity/Box
$\phi 3$ Series	2000 or 5000 pcs
$\phi 5$ Series	1000 or 2000 pcs