



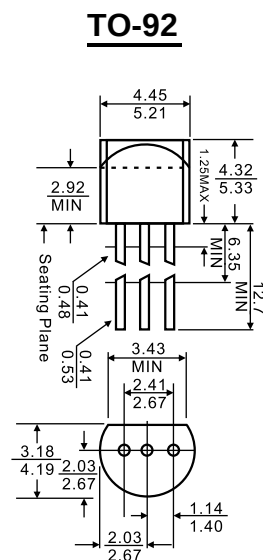
1. EMITTER
2. BASE
3. COLLECTOR

Features

- ✧ High voltage

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-300	V
V_{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-500	mA
P_C	Collector Power Dissipation	625	mW
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55-150	$^{\circ}\text{C}$
$R_{\theta JA}$	Thermal Resistance, junction to Ambient	200	$^{\circ}\text{C}/\text{mW}$
$R_{\theta JC}$	Thermal Resistance, junction to Case	83.3	$^{\circ}\text{C}/\text{mW}$



Dimensions in inches and (millimeters)

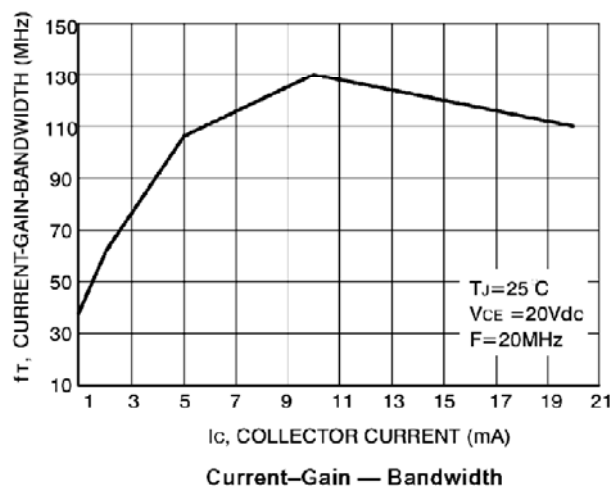
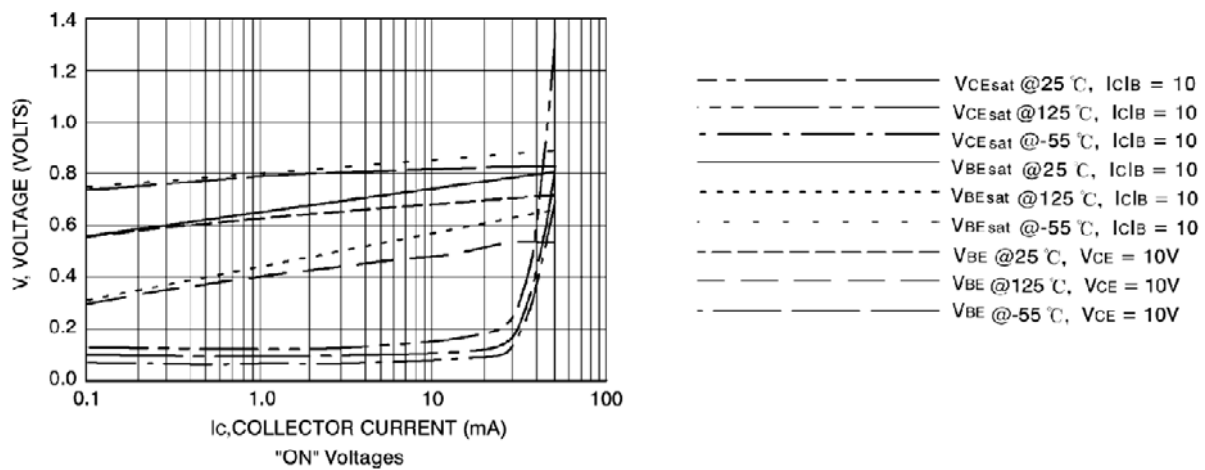
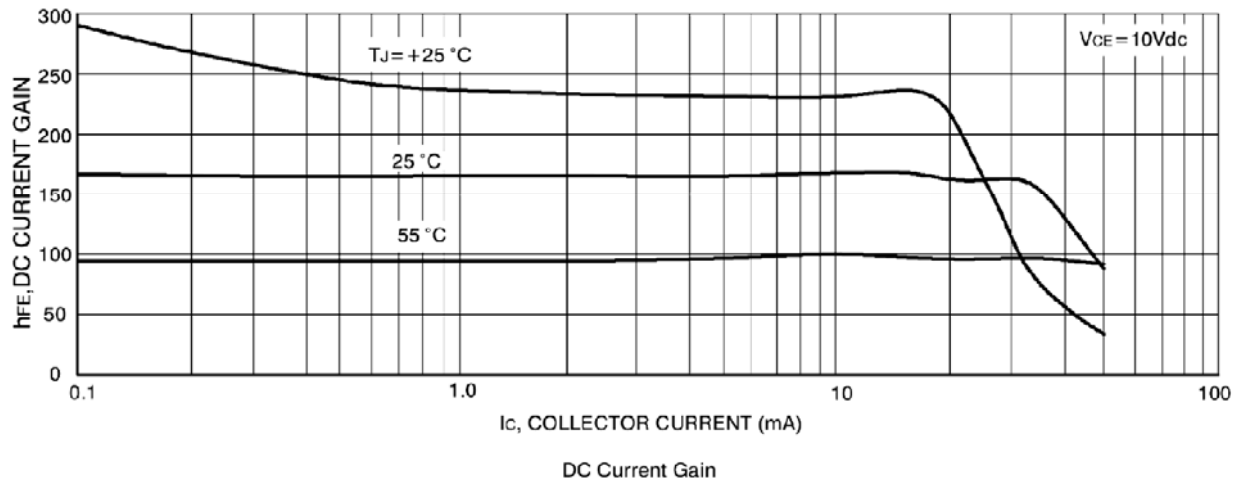
ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}$, $I_E=0$	-300			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}$, $I_B=0$	-300			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}$, $I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-200\text{V}$, $I_E=0$			-0.25	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}$, $I_C=0$			-0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-10\text{V}$, $I_C=-1\text{mA}$	60			
	$h_{FE(2)}$	$V_{CE}=-10\text{V}$, $I_C=-10\text{mA}$	80		250	
	$h_{FE(3)}$	$V_{CE}=-10\text{V}$, $I_C=-80\text{mA}$	60			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-20\text{mA}$, $I_B=-2\text{mA}$			-0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-20\text{mA}$, $I_B=-2\text{mA}$			-0.9	V
Transition frequency	f_T	$V_{CE}=-20\text{V}$, $I_C=-10\text{mA}$ $f=30\text{MHz}$	50			MHz

CLASSIFICATION OF $h_{FE(2)}$

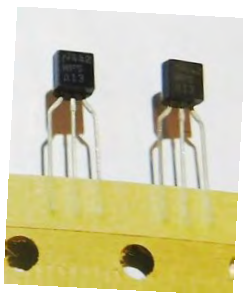
Rank	A	B ₁	B ₂	C
Range	80-100	100-150	150-200	200-250

Typical Characteristics





LGE Packing Specification of AMMO for TO-92



1. Taping specification

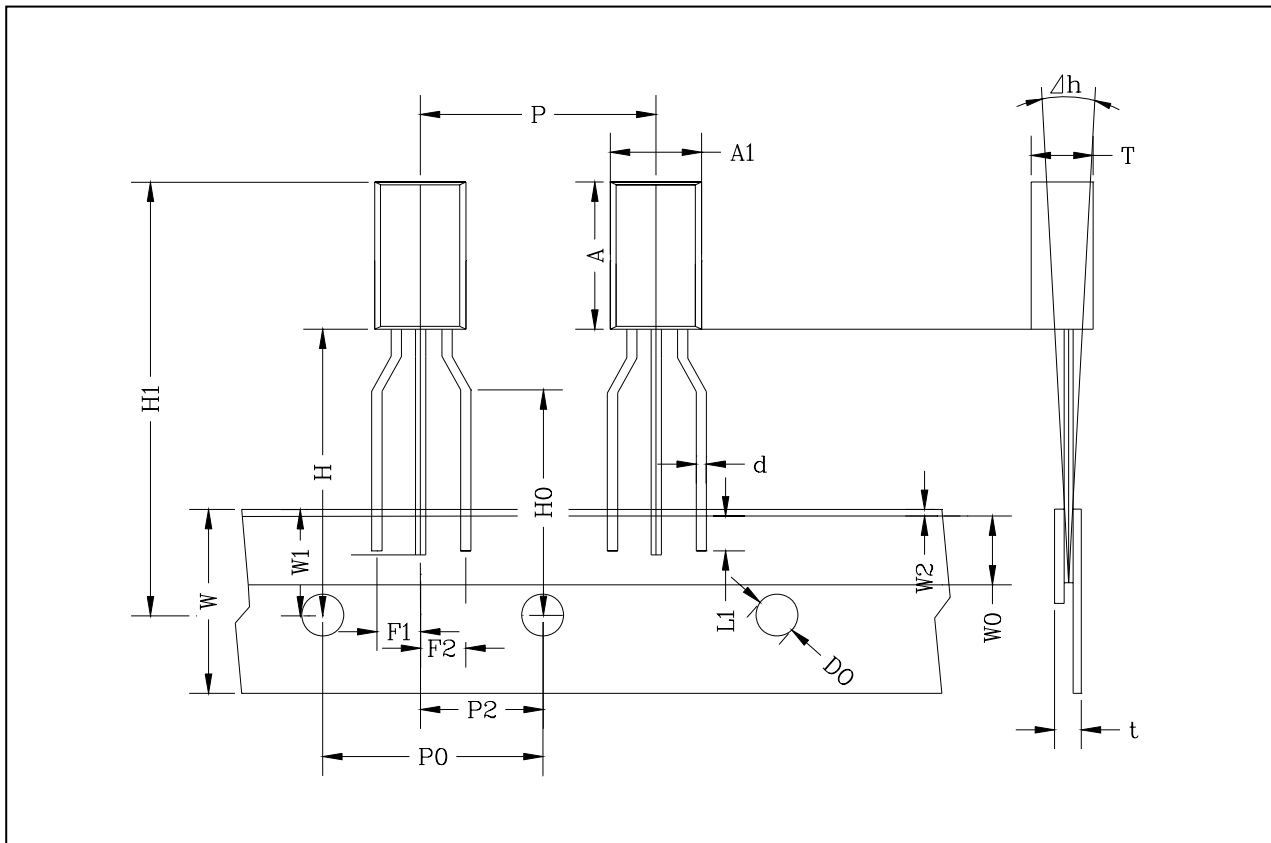
Taping Specification	Packaging classification	Taping classification	Packaged quantity(PCS)
	Ammo pack	Forward direction	2,000

2. Taping dimension

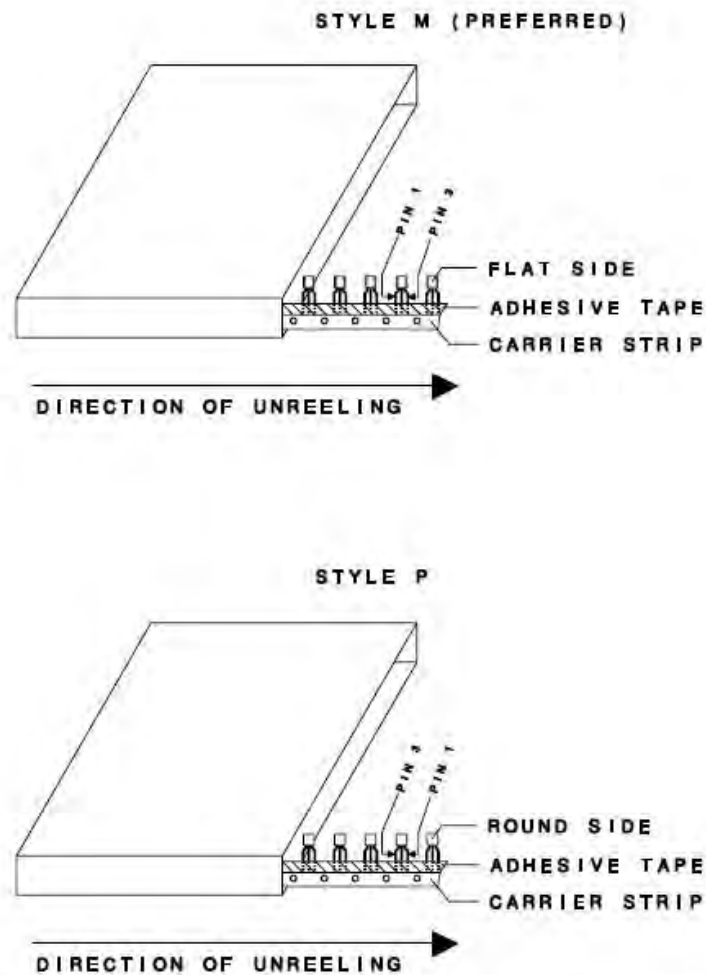
Unit : [mm]

Item	Symbol	Value & Tolerance
Body width	A1	4.9 ± 0.2
Body height	A	4.8 ± 0.2
Body thickness	T	3.9 ± 0.2
Lead wire diameter	d	0.5 ± 0.05
Pitch of component	P	12.7 ± 1.0
Feed hole pitch	PO	12.7 ± 0.2
Hole center to component center	P2	6.35 ± 0.5
Lead to lead distance	F1,F2	$2.5 + 0.3/-0.1$
Component alignment	Δh	± 0.1
Tape width	W	$18.0 + 1.0/-0.5$
Hole-down tape width	WO	6.0 ± 0.5
Hole position	W1	$9.0 + 1.0/-0.5$
Hole down Tape position	W2	1.0 (Max.)
Height of component from tape center	H	19.0 (Min.)
Lead wire clinch height	HO	$16.0 + 1.0/-0.5$
Component height	H1	23.8 ± 0.2
Lead wire(tape portion)	L1	2.5 (Min.)
Feed hole diameter	DO	4.0 ± 0.2
Total tape thickness	t	0.7 ± 0.2

3. Taping direction



4. Packing style

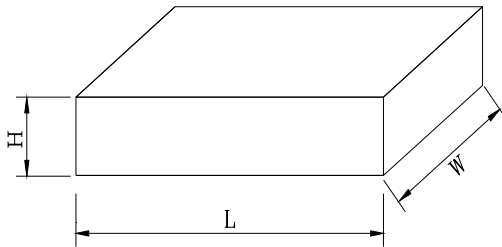


Note: The box is accessible from either side depending upon whether PIN 1 or PIN 3 is required at the leading edge.

5. Box dimension

Unit : [mm]

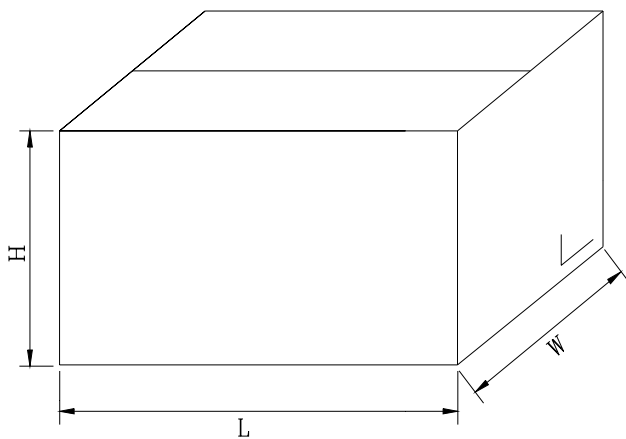
Inner Box



(1) Dimension : 355(L)×155(W)×48(H) (mm)

(2) Quantity : 2K pcs per each Inner Box

Out Box



(1) Dimension : 350(L)×335(W)×240(H) (mm)

(2) Quantity : contain 10ea Inner Box (Total 20K pcs)

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
MPSA92	TO-92	Bulk	1000pcs/Bag
MPSA92-TA	TO-92	Tape	2000pcs/Box