

## Epitaxial Planar PNP Transistor

## MJD32C

### FEATURES

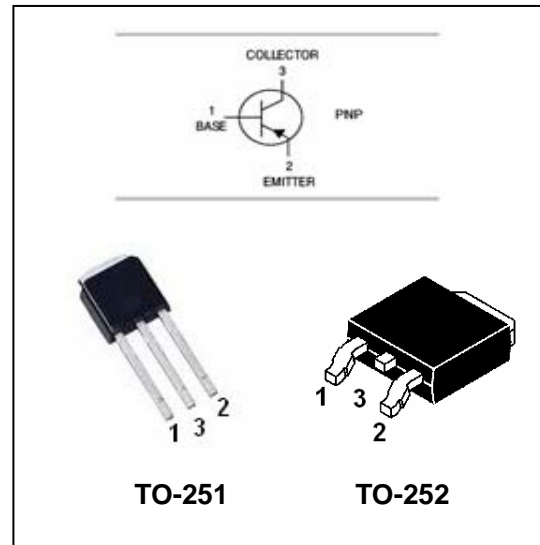
- Low formed for surface mount application.



- Electrically similar to popular and TIP32C.
- Straight Lead.

### APPLICATIONS

- General purpose amplifier.
- Low speed switching applications.



**MAXIMUM RATING** operating temperature range applies unless otherwise specified

Symbol	Parameter	Value	Units
$V_{CBO}$	Collector-Base Voltage	-100	V
$V_{CEO}$	Collector-Emitter Voltage	-100	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current -Continuous	-3	A
$I_{CP}$	Collector Current -Peak	-5	A
$I_B$	Base Current	-1	A
$P_C$	Collector Power Dissipation	1.5	W
$T_j, T_{stg}$	Junction and Storage temperature range	-65 to +150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-emitter sustaining voltage	$V_{CE0(sus)}$	$I_C=-30mA, I_B=0$	-100		V
Collector cut-off current	$I_{CEO}$	$V_{CE}=-60V, I_B=0$		-50	$\mu A$
Collector cut-off current	$I_{CES}$	$V_{CE}=-100V, V_{BE}=0$		-20	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$		-1	mA
DC current gain	$h_{FE}$	$V_{CE}=-4V, I_C=-1A$ $V_{CE}=-4V, I_C=-3A$	25 10	50	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-3A, I_B=-375mA$		-1.2	V
Base-emitter on voltage	$V_{BE(on)}$	$V_{CE}=-4V, I_C=-3A$		-1.8	V
Transition frequency	$f_T$	$V_{CE}=-10V, I_C=-0.5A$	3		MHz

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

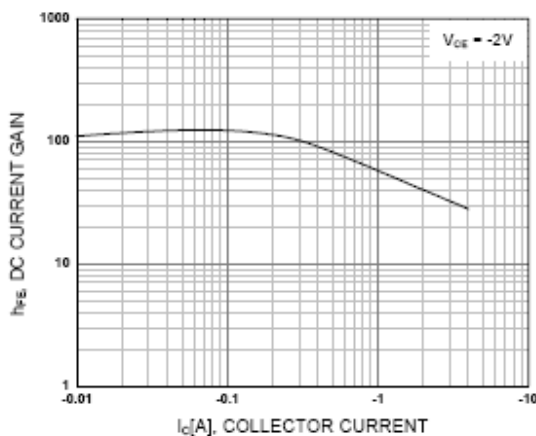


Figure 1. DC current Gain

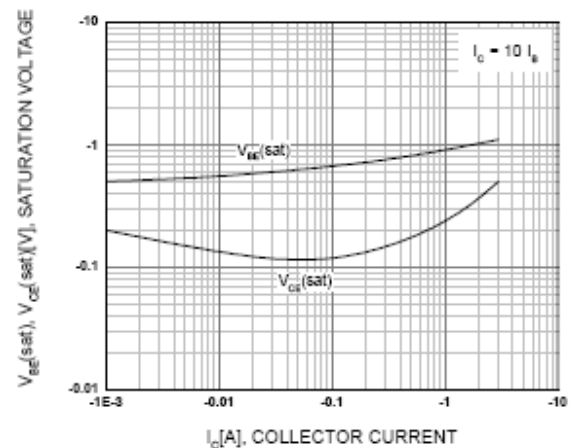


Figure 2. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

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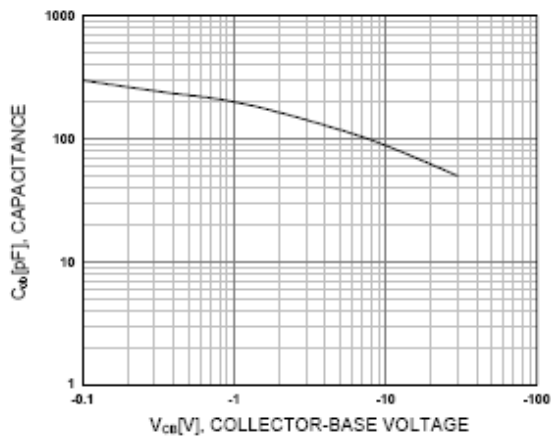


Figure 3. Collector Capacitance

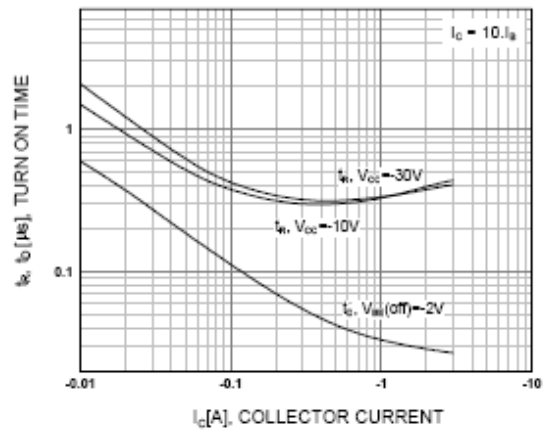


Figure 4. Turn On Time

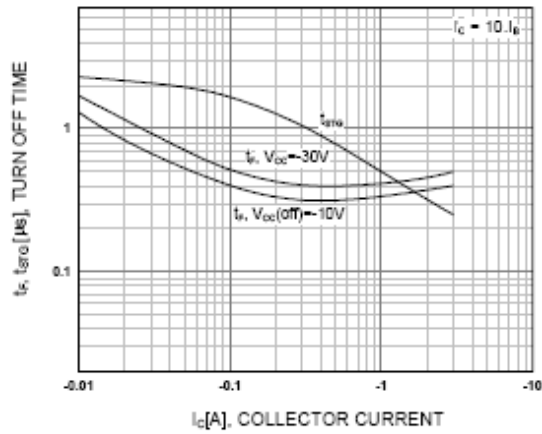


Figure 5. Turn Off Time

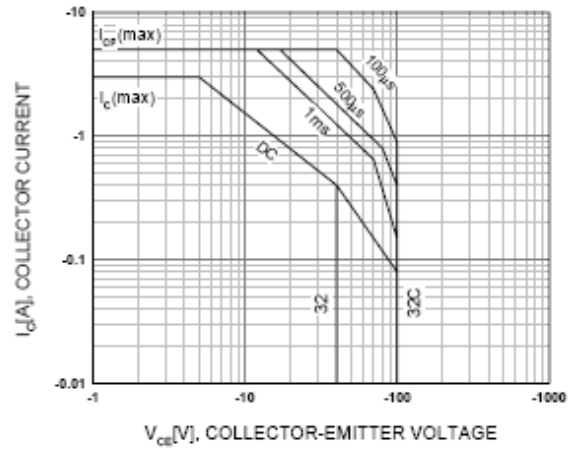


Figure 6. Safe Operating Area



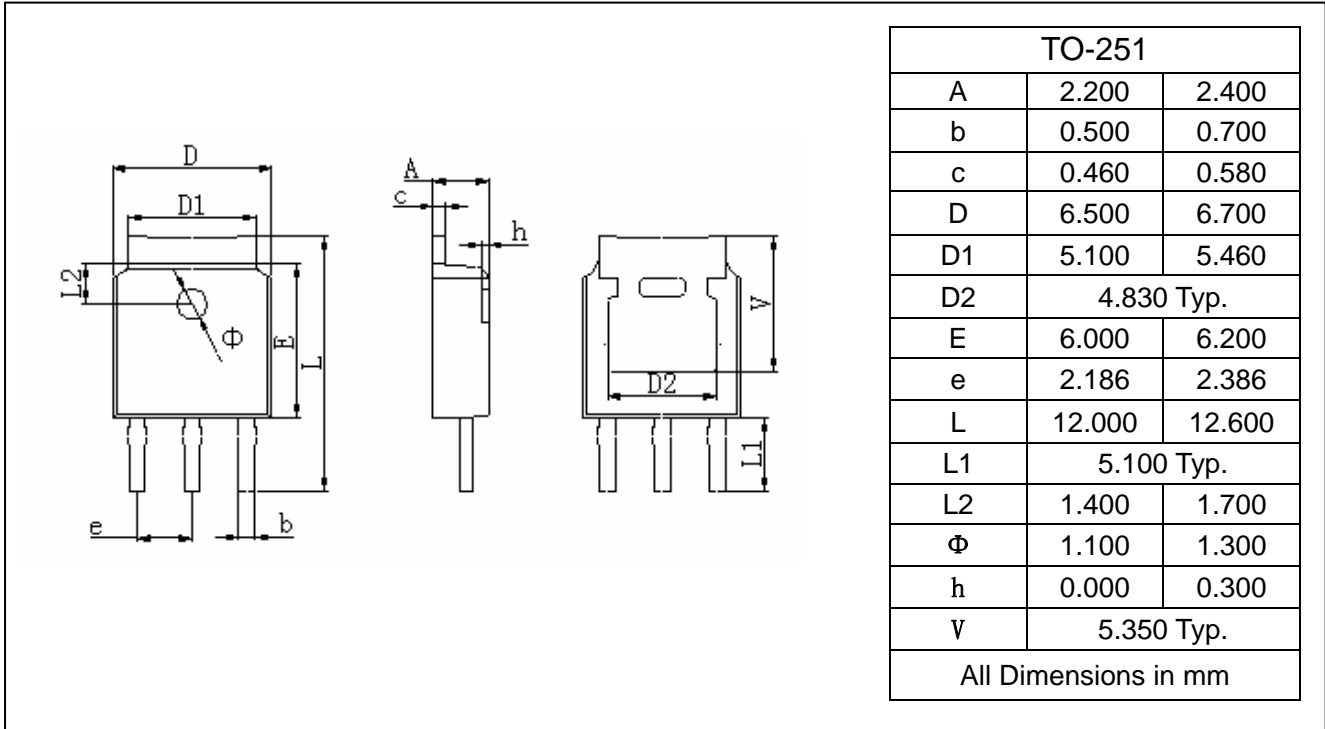
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## PACKAGE OUTLINE

Plastic surface mounted package

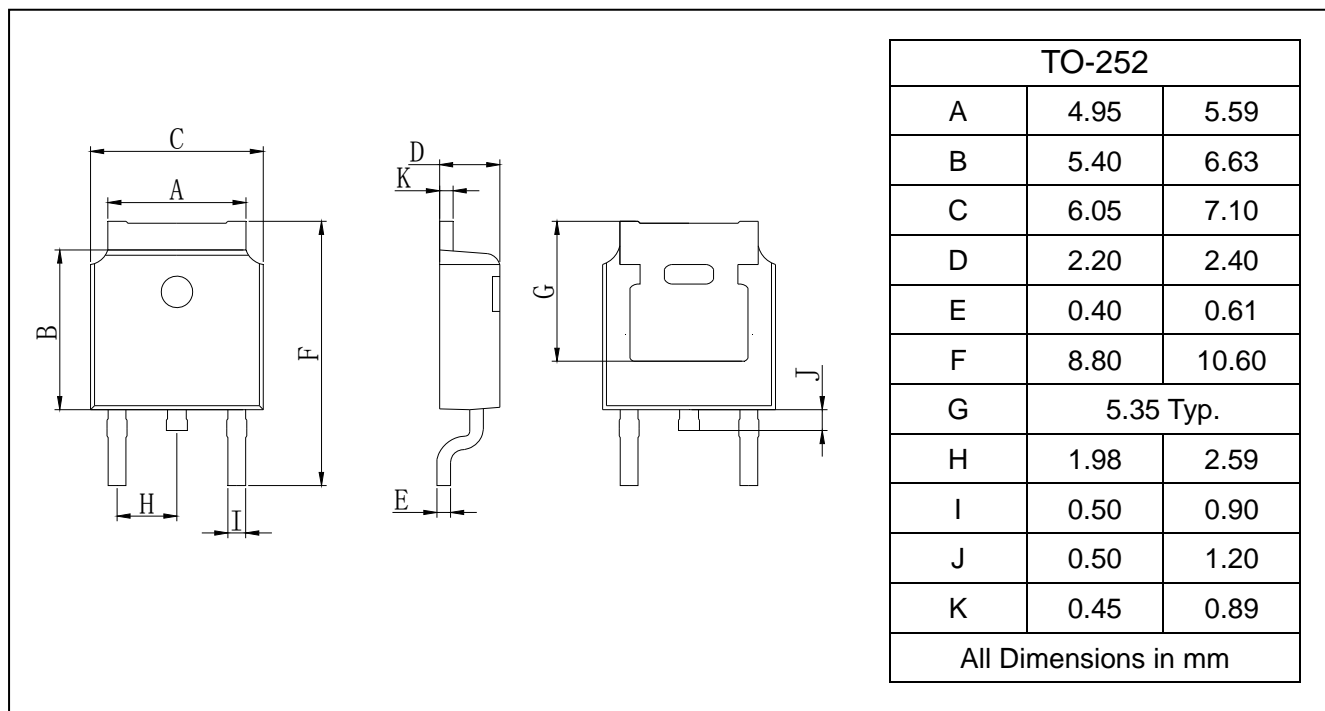
TO-251



## PACKAGE OUTLINE

Plastic surface mounted package

TO-252





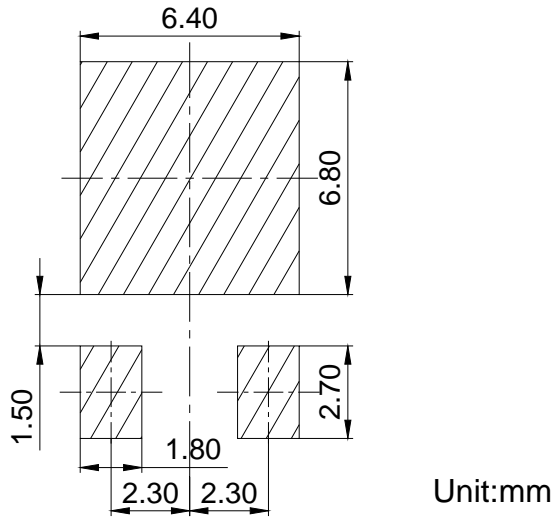
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### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
MJD32C	TO-251/252	80PCS/Tube
	TO-252	2500PCS/Tape&Reel