

TO-92MOD Plastic-Encapsulate Transistors

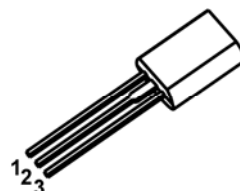
2SC2482 TRANSISTOR (NPN)

FEATURE

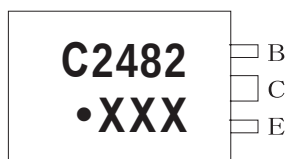
- High Voltage :Vceo=300V
- Small Collector Output Capacitance: Cob=3.0pF(Typ)

TO-92MOD

1. EMITTER
2. COLLECTOR
3. BASE

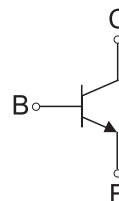


MARKING



C2482=Device code
Solid dot = Green molding compound device,
if none, the normal device
XXX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC2482	TO-92MOD	Bulk	500pcs/Bag
2SC2482-TA	TO-92MOD	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EB0}	Emitter-Base Voltage	7	V
I _C	Collector Current -Continuous	0.1	A
P _C	Collector Power Dissipation	0.9	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS

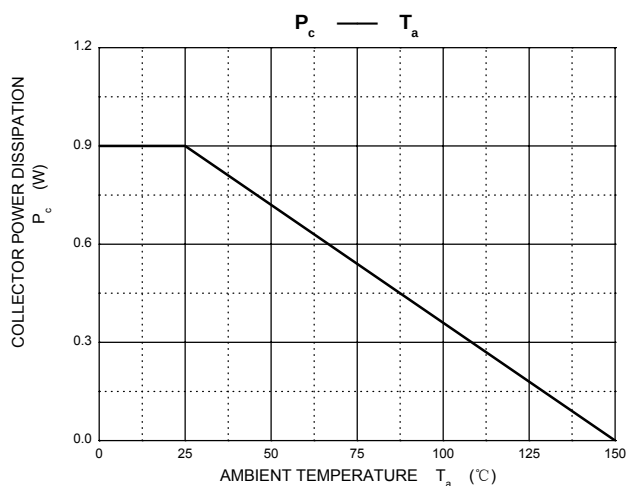
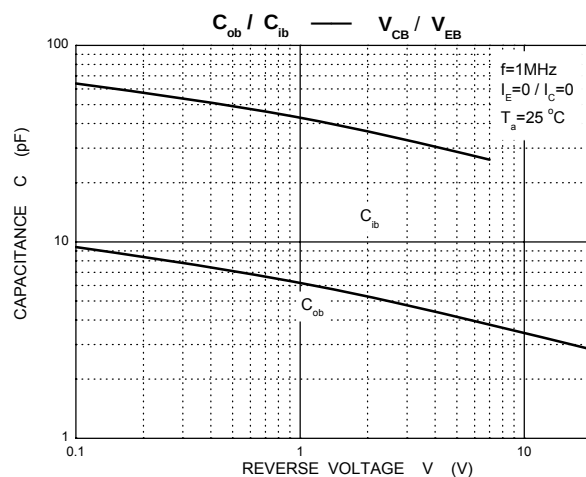
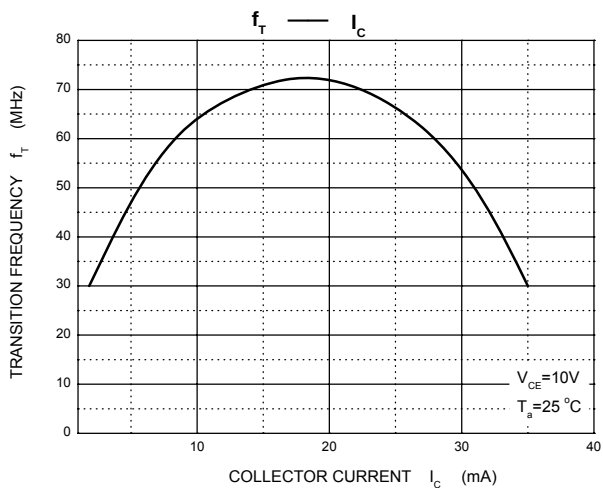
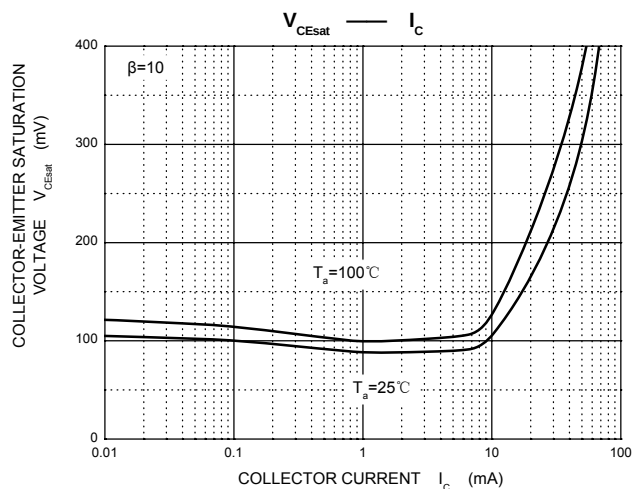
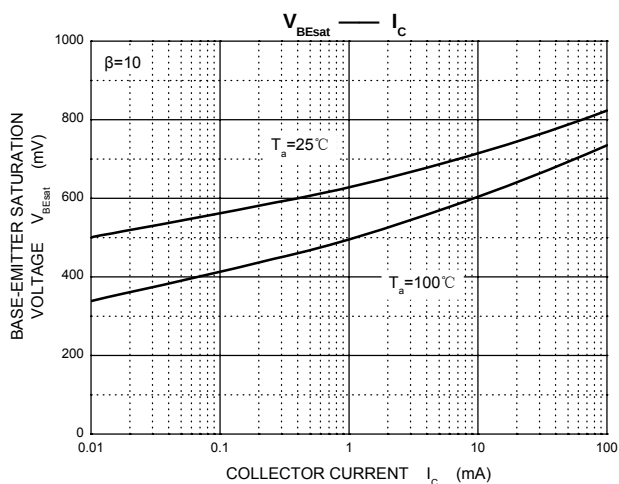
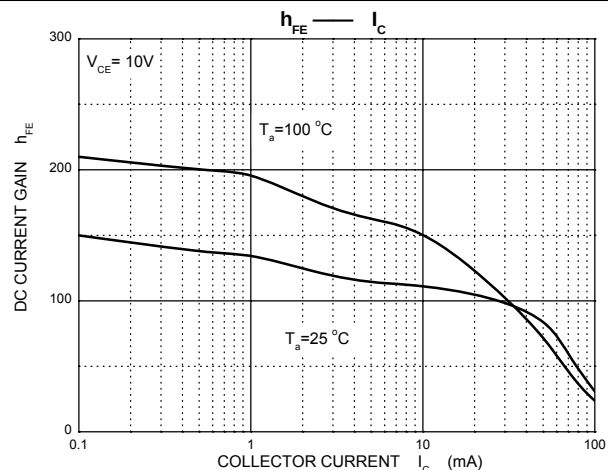
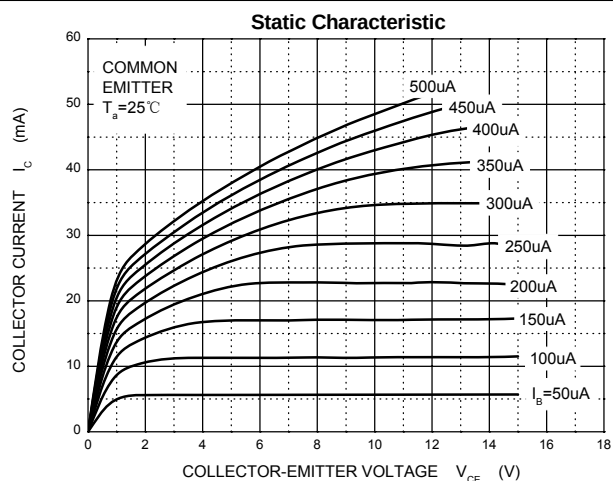
$T_a=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V(\text{BR})_{\text{CBO}}$	$I_C=100\mu\text{A}, I_E=0$	300			V
Collector-emitter breakdown voltage	$V(\text{BR})_{\text{CEO}}$	$I_C=3\text{mA}, I_B=0$	300			V
Emitter-base breakdown voltage	$V(\text{BR})_{\text{EBO}}$	$I_E=100\mu\text{A}, I_C=0$	7			V
Collector cut-off current	I_{CBO}	$V_{\text{CB}}=240\text{V}, I_E=0$			1.0	μA
Collector cut-off current	I_{CEO}	$V_{\text{CB}}=220\text{V}, I_B=0$			5.0	μA
Emitter cut-off current	I_{EBO}	$V_{\text{EB}}=7\text{V}, I_C=0$			1.0	μA
DC current gain	h_{FE}	$V_{\text{CE}}=10\text{V}, I_C=20\text{mA}$	30		150	
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_C=10\text{mA}, I_B=1\text{mA}$			1.0	V
Base-emitter saturation voltage	$V_{\text{BE(sat)}}$	$I_C=10\text{mA}, I_B=1\text{mA}$			1.0	V
Transition frequency	f_T	$V_{\text{CE}}=10\text{V}, I_C=20\text{mA}, f=30\text{MHz}$	50			MHz
Collector output capacitance	C_{ob}	$V_{\text{CB}}=20\text{V}, I_E=0, f=1\text{MHz}$		3		pF

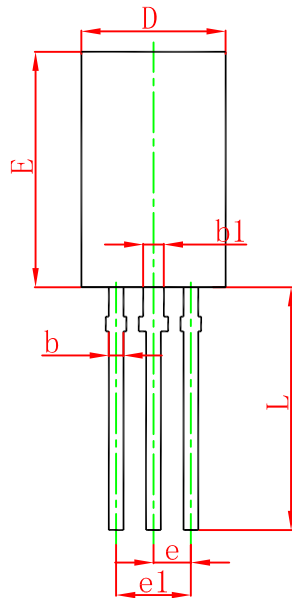
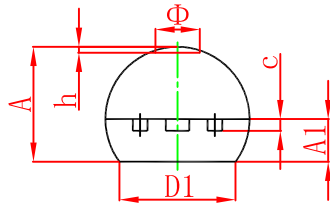
CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	30-90	90-150

Typical Characteristics

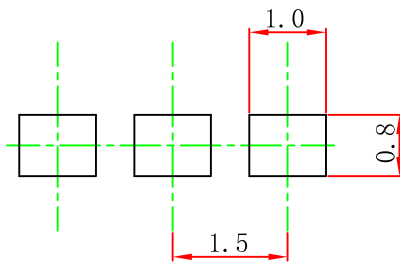


TO-92MOD Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.800	5.000	0.189	0.197
A1	1.730	2.030	0.068	0.080
b	0.440	0.600	0.017	0.024
b1	0.940	1.100	0.037	0.043
c	0.350	0.450	0.014	0.018
D	5.900	6.100	0.232	0.240
D1	4.000		0.157	
E	8.500	8.700	0.335	0.343
e	1.500 TYP.		0.059 TYP.	
e1	2.900	3.100	0.114	0.122
L	13.800	14.200	0.543	0.559
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92MOD Suggested Pad Layout



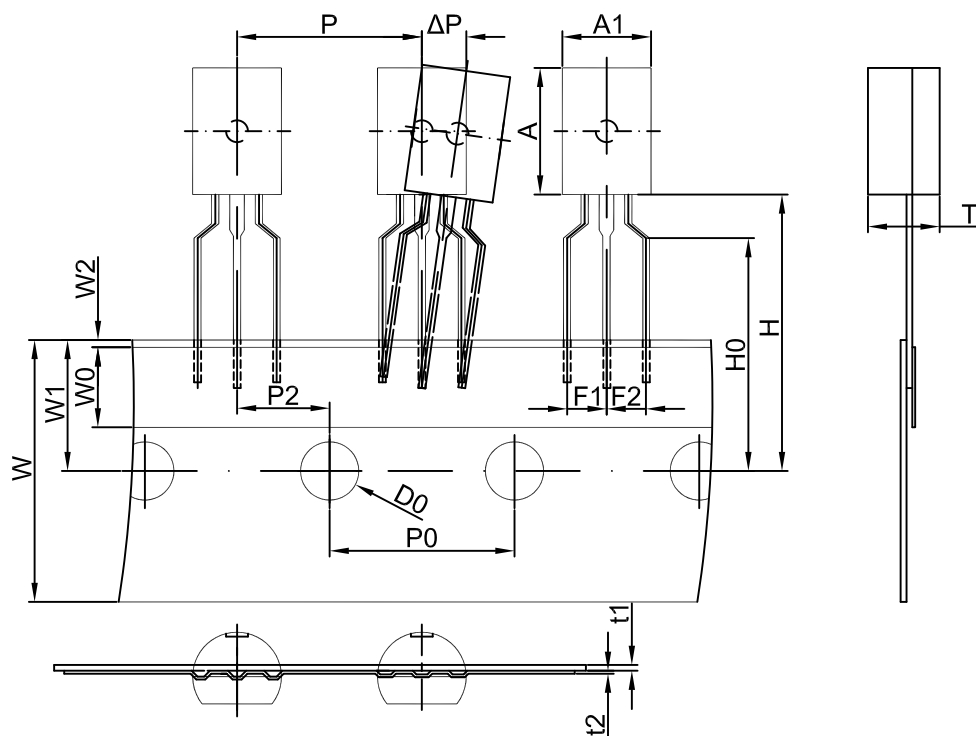
Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

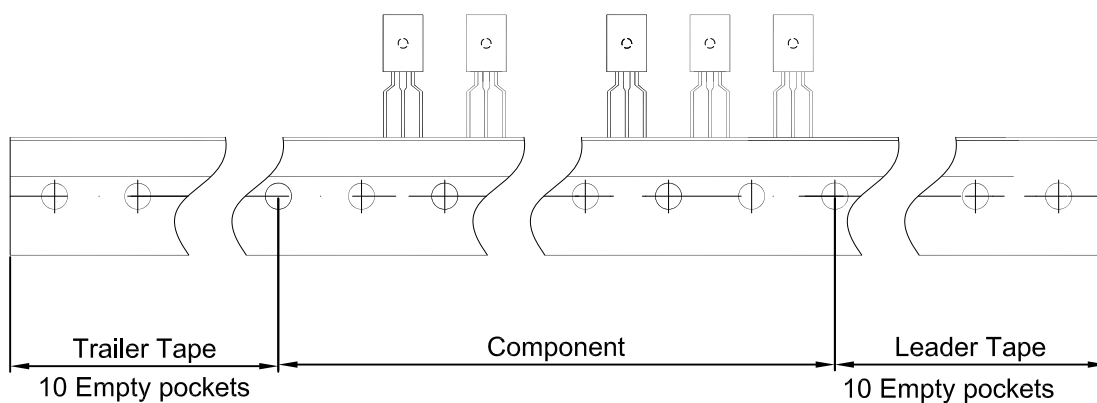
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TO-92MOD PACKAGE TAPEING DIMENSION



Dimensions are in millimeter

A1	A	T	P	P0	P2	F1	F2	W
6.0	8.6	4.9	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0	19.0	16.0	4.0	0.4	0.2	0



Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92MOD	2000 pcs	333×245×43	20,000 pcs	573×404×266