

PNP SILICON PLANAR EPITAXIAL TRANSISTORS



PN4354 PN4355 PN4356

TO-92 Plastic Package

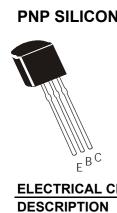
General Purpose Amplifiers

DESCRIPTION	SYMBOL	4354	4355	4356	UNITS
Collector Emitter Voltage	V _{CEO}	60	60	80	V
Collector Base Voltage	V _{CBO}	60	60	80	V
Emitter Base Voltage	V _{EBO}		5		V
Collector Current - Continuous	I _C		500		mA
Power Dissipation@Ta=25°C	P _D		625		mW
Power Dissipation@ Tc=25°C	P _D		1.0		mW
Operating And Storage Junction	T _i , T _{stq}		-55 to +150		°C
Temperature Range	,				

ELECTRICAL CHARACTERISTICS (Ta=25°C Unless Otherwise Specified)

DESCRIPTION	SYMBOL	. TEST CONDITION	4354	4355	4356	UNITS
Collector Emitter Voltage	V _{CEO(sus)*}	I _C =10mA,I _B =0 (pulsed)	>60	>60	>80	V
Collector Base Voltage	V _{CBO}	I _C =10uA,I _E =0	>60	>60	>80	V
Emitter Base Voltage	V_{EBO}	I _E =10uA,I _C =0		>5		V
Collector-Cut off Current	I _{CBO}	V _{CB} =50V, I _E = 0			<50	nA
		$Vc_{B}=50V, I_{E}=0,$				
		Ta =75°C			<5	uA
Emitter Cut off Current	I _{FBO}	$V_{BE} = 4V, I_{C} = 0$			<100	nA
	200					
DC Current Gain						
	h _{FF} *	V _{CE} =10V,I _C =100uA	>25	>60	>25	
		V_{CF} =10V,I _C =1mA	>40	>75	>40	
		V_{CF} =10V,I _C =10mA	50-500	100-400	50-250	
		V _{CE} =10V,I _C =100mA	>40	>75	>40	
		V_{CE} =10V,I _C =500mA	>30	>75	>30	
Commom Emitter Small			4 0 5 0	4 9 4 5	40 50	
Signal Current Gain	l h _{fe} l	I _C =50mA, V _{CE} =10V	1.0-5.0	1.0 - 1.5	1.0 - 5.0	
		f=100MHz				
Collector Emitter Sat Voltage	V _{CF} (sat) *	[·] I _C =150mA,I _B =15mA	<0.15	<0.15	<0.15	V
0	02()	I _C =500mA,I _B =50mA	<0.5	<0.5	<0.5	V
PN435	5	$I_{c}=1A, I_{B}=100 \text{ mA}$		<1.0		V

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DESCRIPTION	SYMBOL	TEST CONDITION	4354	4355	4356	UNITS
Base Emitter Sat Voltage	V _{BE(sat)*}	I _C =150mA,I _B =15mA	<0.9	<0.9	<0.9	V
		I _C =500mA,I _B =50mA	<1.1	<1.1	<1.1	V
		I _C =1A,I _B =100mA		<1.2		V
PN4355	5					
	V _{BE(on)*}	I _C =500mA,V _{CE} =0.5V	<1.1	<1.1	<1.1	V
Base Emitter On Voltage		I _C =1A,V _{CE} =1V		<1.2		V
PN4355	5					
SMALL-SIGNAL	SYMBOL	TEST CONDITION	4354	4355	4356	UNITS
DYNAMIC CHARACTERISTICS	0		-00	.00	-00	F
Collector to Base Capacitance	C _{cb}	I _E =0, V _{CB} =10V, f=1.0MH _Z	<30	<30	<30	Р
Emitter to Base Capacitance	C_{eb}	I _C =0, V _{EB} =0.5V, f=1.0MH ₇	<110	<110	<110	Р
Turn On Time	ton	I _C =500mÅ,I _{B1} =50mÅ, V _{CC} =30V	<100	<100	<100	Р
	toff	I _C =500mA,I _{B1=} I _{B2} =50mA,				
Turn off Time		V _{CC} =30V	<400	<400	<400	ns
Noise Figure	NF	V _{CE} =10V,I _C =100uA	<3.0	<3.0	<3.0	dB
		R_s =1K Ω ,f=1k H_{Z_i}				
		$B_W = 1H_7$				

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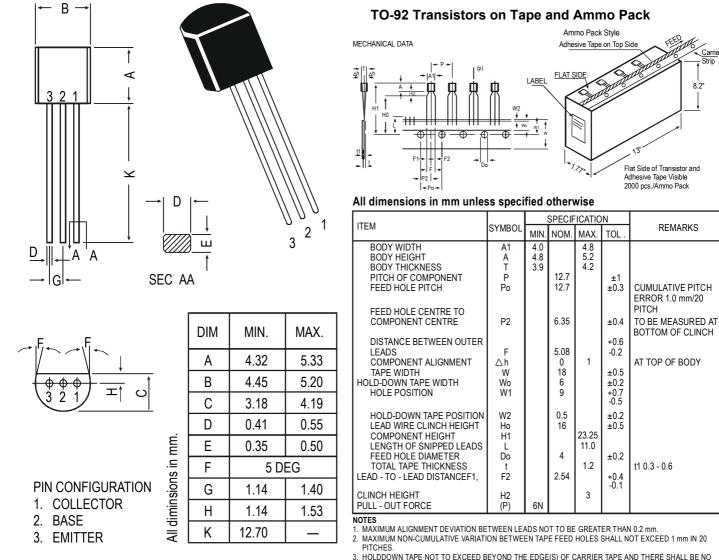
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REMARKS

TO-92 Plastic Package



HOLDDOWN TAPE NOT TO EXCEED BEYOND THE EDGE(S) OF CARRIER TAPE AND THERE SHALL BE NO

EXPOSURE OF ADHESIVE

NO MORE THAN 3 CONSECUTIVE MISSING COMPONENTS ARE PERMITTED.
A TAPE TRAILER, HAVING AT LEAST THREE FEED HOLES ARE REQUIRED AFTER THE LAST COMPONENT.

6. SPLICES SHALL NOT INTERFERE WITH THE SPROCKET FEED HOLES.

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-92 Bulk TO-92 T&A	1K/polybag 2K/ammo box	200 gm/1K pcs 645 gm/2K pcs	3" x 7.5" x 7.5" 12.5" x 8" x 1.8"		17" x 15" x 13.5" 17" x 15" x 13.5"	80.0K 32.0K	23 kgs 12.5 kgs

Notes

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Disclaimer

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