

**2N5404**  
**2N5405**  
**2N5406**  
**2N5407**

**PNP POWER TRANSISTORS**

**ABSOLUTE MAXIMUM RATINGS**

	<u>2N5404</u>	<u>2N5405</u>	<u>2N5406</u>	<u>2N5407</u>
$BV_{CBO}$ .....	-80 V	-100 V	-80 V	-100 V
$BV_{CEO}$ .....	-80 V	-100 V	-80 V	-100 V
$BV_{EBO}$ .....	-6.0 V	-6.0 V	-6.0 V	-6.0 V
$I_C$ (Max.) .....	-5.0 A	-5.0 A	-5.0 A	-5.0 A
$I_B$ (Max.) .....	-2.0 A	-2.0 A	-2.0 A	-2.0 A
$P_T$ (100°C Case) .....	5.0 W	5.0 W	5.0 W	5.0 W
Operating Junction Temperature	_____ 200°C _____			
Storage Temperature Range	_____ -65°C to +200°C _____			

**ELECTRICAL CHARACTERISTICS (25°C Ambient)**

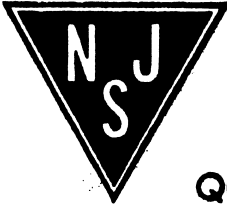
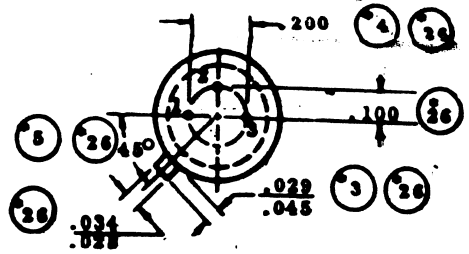
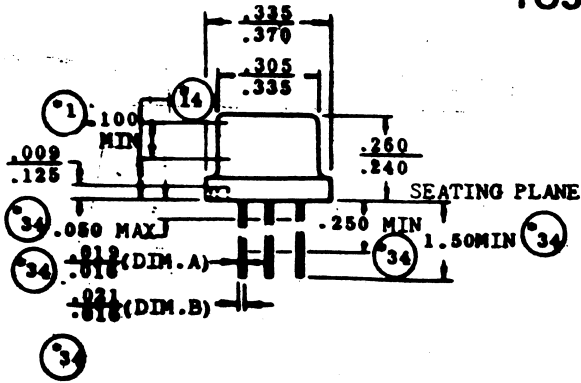
**Static**

<u>SYMBOL</u>	<u>CONDITIONS</u>	<u>MIN.</u>	<u>MAX.</u>	<u>UNITS</u>	<u>TYPE</u>
$I_{CEX}$	$V_{CE} = \text{Rated } BV_{CEO}, V_{BE} = 1.5V$	-	-10	$\mu A$	All
	$V_{CE} = \text{Rated } BV_{CEO}, V_{BE} = 1.5V,$ $T_C = 150^\circ C$	-	-500	$\mu A$	All
$V_{CEO} \text{ (sus)}$	$I_C = -100 \text{ mA}, I_B = 0$	-80	-	Volts	2N5404, 2N5406
	$I_C = -100 \text{ mA}, I_B = 0$	-100	-	Volts	2N5405, 2N5407
$I_{EBO}$	$V_{EB} = -4.0 \text{ V}, I_C = 0$	-	-1.0	$\mu A$	All
$I_{CEO}$	$V_{CE} = -50 \text{ V}, I_B = 0$	-	-100	$\mu A$	All
$h_{FE}$	$I_C = -2.0 \text{ A}, V_{CE} = -5.0 \text{ V}$	20	60	-	2N5404, 2N5405
	$I_C = -2.0 \text{ A}, V_{CE} = -5.0 \text{ V}$	40	120	-	2N5406, 2N5407
$V_{CE} \text{ (sat)}$	$I_C = -2.0 \text{ A}, I_B = -0.2 \text{ A}$	-	-0.6	Volts	All
$V_{BE} \text{ (sat)}$	$I_C = -2.0 \text{ A}, I_B = -0.2 \text{ A}$	-	-1.2	Volts	All

**Dynamic**

$C_{OBO}$	$V_{CB} = -10 \text{ V}, f = 1 \text{ MHz}$	-	150	pf	All
$f_t$	$V_{CE} = -5.0 \text{ V}, I_C = -0.2 \text{ A}$	40	-	MHz	All
$t_r$	$I_C = -2.0 \text{ A}, I_{B1} = -I_{B2} = 0.2 \text{ A}$	-	0.5	$\mu sec$	All
$t_s$	$I_C = -2.0 \text{ A}, I_{B1} = -I_{B2} = 0.2 \text{ A}$	-	0.75	$\mu sec$	2N5404, 2N5405
	$I_C = -2.0 \text{ A}, I_{B1} = -I_{B2} = 0.2 \text{ A}$	-	1.0	$\mu sec$	2N5406, 2N5407
$t_f$	$I_C = -2.0 \text{ A}, I_{B1} = -I_{B2} = 0.2 \text{ A}$	-	0.2	$\mu sec$	2N5404, 2N5405
	$I_C = -2.0 \text{ A}, I_{B1} = -I_{B2} = 0.2 \text{ A}$	-	0.3	$\mu sec$	2N5406, 2N5407

T05



Quality Semi-Conductors