

**2N5404**

**2N5405**

**2N5406**

**2N5407**

# PNP POWER TRANSISTORS

## ABSOLUTE MAXIMUM RATINGS

	2N5404	2N5405	2N5406	2N5407
$BV_{CBO}$ .....	-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)

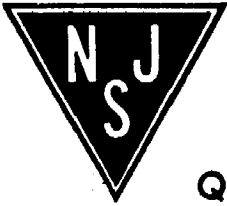
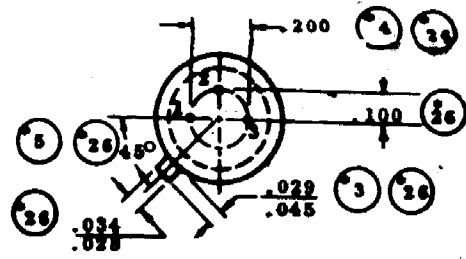
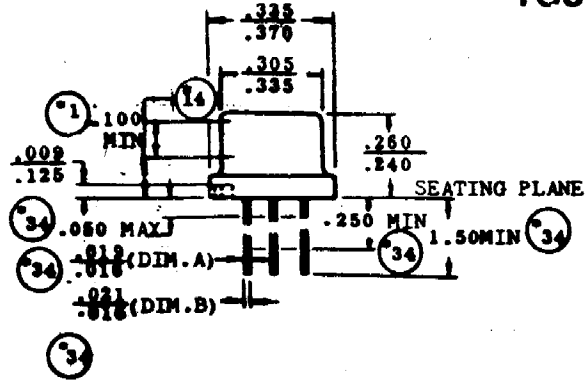
### Static

SYMBOL	CONDITIONS	MIN.	MAX.	UNITS	TYPE
$I_{CEX}$	$V_{CE} = \text{Rated } BV_{CEO}, V_{BE} = 1.5V$	-	-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
$I_{EBO}$	$V_{EB} = -4.0 V, I_c = 0$	-	-1.0	$\mu A$	All
$I_{CEO}$	$V_{CE} = -50 V, I_B = 0$	-	-100	$\mu A$	All
$h_{FE}$	$I_c = -2.0 A, V_{CE} = -5.0 V$	20	60	-	2N5404, 2N5405
	$I_c = -2.0 A, V_{CE} = -5.0 V$	40	120	-	2N5406, 2N5407
$V_{CE} \text{ (sat)}$	$I_c = -2.0 A, I_B = -0.2 A$	-	-0.6	Volts	All
$V_{BE} \text{ (sat)}$	$I_c = -2.0 A, I_B = -0.2 A$	-	-1.2	Volts	All

### Dynamic

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

T05



Quality Semi-Conductors