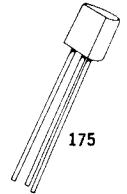


# NPN SILICON SIGNAL GENERAL PURPOSE AMPLIFIERS AND SWITCHES TO-18 PACKAGE

Type	$h_{FE}$ @ 5V, 2mA	$V_{CE0}$ @ 10mA Min. (V)	$V_{CE(sat)}$ @ 10mA, 1mA Typical (V)	$P_r$ $T_A=25^\circ C$ (mW)	$C_{cb}$ @ 10V, 1MHz Max. (pF)	$f_t$ Typical (MHz)	Comments	Package Outline No.	Specifi- cation Sheet No.
2N5824	60-120	40	.125 max	360	4.0	150	2 to 1 beta spread, with excellent beta hold-up from 10 $\mu$ A to 20 mA. General purpose signal applications at audio and intermediate frequencies; 2N5827A has a 500 max wideband audio NF—2N5828A, 3dB max.	175	40.36
2N5825	100-200								
2N5826	150-300								
2N5827	250-500								
2N5827A	250-500								
2N5828	400-800								
2N5828A	400-800	25	.080 max	400	6.0	250	General purpose types featuring higher power dissipation, 400mA collector current capability, high speed switching and low NF; complementary types available as 2N6001,3,5,7	175	40.93
2N6000	100-300 <sup>1</sup>								
2N6002	250-500 <sup>1</sup>								
2N6004	100-300 <sup>1</sup>								
2N6006	250-500 <sup>1</sup>	40	.125 max	360	4.0	150	Higher voltage device featuring high gain at low collector currents. Epoxy replacements for hermetic 2N929, 2N930.	175	40.95
GET929	60-120 <sup>2</sup>								
GET930	100-300 <sup>2</sup>								
GET2484	100 Min <sup>2</sup>	60	.100	360	4.0	150	Optimized type for high voltage, high gain, low noise. Epoxy replacement for hermetic 2N2484.	175	45.23



<sup>1</sup>  $h_{FE}$  at  $V_{CE}=1V$ ,  $I_C=10mA$   
<sup>2</sup>  $h_{FE}$  at  $V_{CE}=5V$ ,  $I_C=10\mu A$

# NPN SILICON SIGNAL HIGH SPEED SWITCHES TO-18 PACKAGE

Type	$h_{FE}$ @ 1V, 10mA	$V_{CE0}$ @ 10mA Min. (V)	$V_{CE(sat)}$ @ 10mA, 1mA Max. (V)	$P_r$ $T_A=25^\circ C$ (mW)	$C_{cb}$ @ 10V, 1MHz Max. (pF)	$f_t$ Typical (MHz)	$t_{on}$ MAX (nsec)	$t_{off}$ MAX (nsec)	Comments	Package Outline No.	Specifi- cation Sheet No.
GET706	20 min	15	0.250	360	4.0	350	40 <sup>1</sup>	75 <sup>1</sup>	Epoxy replacements for hermetic 2N706, 2N708, and 2N914.	175	45.16
GET708	30-120						40 <sup>1</sup>	75 <sup>1</sup>			
GET914	30-120						40 <sup>2</sup>	40 <sup>2</sup>			
GET2221	40-120 <sup>3</sup>	30	.3 <sup>4</sup>	360	8.0	250	35 <sup>5</sup>	285 <sup>6</sup>	Epoxy replacements of hermetic 2N2221, 2N2222, 2N2221A, 2N2222A.	175	45.17
GET2222	100-300 <sup>3</sup>						Typical	Typical			
GET2221A	40-120 <sup>3</sup>						35 <sup>5</sup>	285 <sup>6</sup>			
GET2222A	100-300 <sup>3</sup>	40									45.19
GET2369	40-120	15	0.250	360	2.0	400	15 <sup>7</sup>	22 <sup>9</sup>	Epoxy replacements for 2N2369, 2N3013, 2N3014, 2N3646.	175	45.18
GET3013	30-120 <sup>7</sup>						15 <sup>10</sup>	25 <sup>10</sup>			
GET3014	30-120 <sup>7</sup>						16 <sup>11</sup>	25 <sup>11</sup>			
GET3646		20	0.200 <sup>8</sup>				18 <sup>10</sup>	28 <sup>10</sup>			45.20

<sup>1</sup> max switching times @  $I_C=10mA$ ,  $I_{B1}=3mA$ ,  $I_{B2}=1mA$   
<sup>2</sup> max switching times @  $I_C=200mA$ ,  $I_{B1}=40mA$ ,  $I_{B2}=-20mA$   
<sup>3</sup>  $h_{FE}$  at  $V_{CE}=10V$ ,  $I_C=150mA$   
<sup>4</sup>  $V_{CE(sat)}$  max @  $I_C=150mA$ ,  $I_B=15mA$   
<sup>5</sup> max turn-on time @  $I_C=150mA$ ,  $V_{CE}=30V$ ,  $I_{B1}=15mA$   
<sup>6</sup> max turn-off time @  $I_C=150mA$ ,  $V_{CE}=30V$ ,  $I_{B1}=-I_{B2}=15mA$

<sup>7</sup>  $h_{FE}$  @  $V_{CE}=4V$ ,  $I_C=30mA$   
<sup>8</sup>  $V_{CE(sat)}$  @  $I_C=30mA$ ,  $I_B=3mA$   
<sup>9</sup> max switching times @  $I_C=10mA$ ,  $I_{B1}=3mA$ ,  $I_{B2}=-1.5mA$   
<sup>10</sup> max switching times @  $I_C=300mA$ ,  $I_{B1}=30mA$ ,  $I_{B2}=-30mA$   
<sup>11</sup> max switching times @  $I_C=30mA$ ,  $I_{B1}=3mA$ ,  $I_{B2}=-3mA$