

# General Purpose Amplifiers and Switches

NATL SEMICOND (DISCRETE)

Bipolar Transistors

$V_{CE0(sust)}$ (Volts) Min	Devices		$I_C$ (mA) Max	$h_{FE} @ I_C$			$f_T @ I_C$		NF (dB) Max	Package	$P_D (Amb)$ (mW) @25°C
	NPN	PNP		Min	Max	mA	(MHz) Min	mA			
100	2N6553		1000	80	250	50	75	100		TO-202(55)	1333
	2N6718	2N6730	1000	50	250	250	50	200		TO-237(91)	850
	NSDU07		1000	50		250	50	200		TO-202(55)	2000
80	2N3019		1000	100	300	150	100	50		TO-39	800
	2N3700		1000	100	300	150	80	1.0		TO-18	500
	2N6707		1000	40	250	250	50	200		TO-237(90)	850
	2N6717	2N6729	1000	50	250	250	50	200		TO-237(91)	850
	2N6731	2N6732	1000	100	300	350	50	200		TO-237(91)	850
	BC639	BC640	1500	40	250	150	130 Typ	100		TO-92(94)	625
	D40E7		1000	50		100	200 Typ	20		TO-202(55)	1333
	MPSA06	MPSA56	50	50	—	100	100	10		TO-92(92)	625
	NSD105		1500	120	360	100	60	50		TO-202(55)	2000
	TN3019		1000	100	300	150	100	50		TO-237(91)	850
		2N4033	1000	100	300	100	150	50		TO-39	800
		2N6555	1000	80	300	50	75	50		TO-202(55)	1333
		PN4356	500	50	250	10	100	50		TO-92(92)	625
	TN4033	1000	100	300	100	150	50		TO-237(91)	850	
75	2N5320	2N5322	2000	30	250	500	50	50		TO-39	800

\* TO-236AB is standard for all devices.  
Please refer to Surface Mount section for TO-236 Device Marking.

