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2N6106-2N6111, 2N6288-2N6293, 2N6473-2N6476

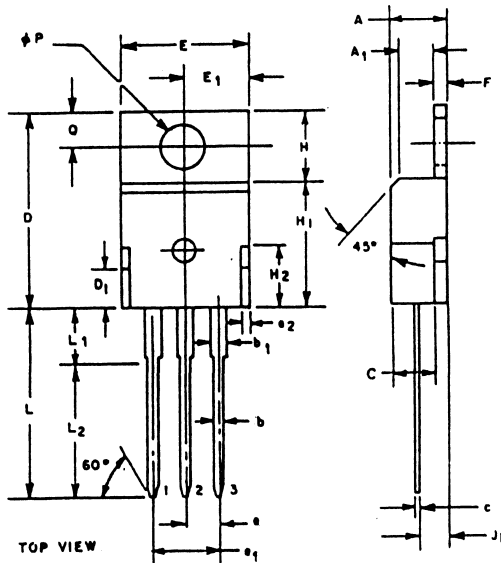
MAXIMUM RATINGS, Absolute-Maximum Values:

	N-P-N		P-N-P				
	2N6288 2N6289	2N6290 2N6291	2N6106‡ 2N6111‡	2N6108‡ 2N6109‡		2N6473 2N6475‡	2N6474 2N6476‡
V_{CBO}	40	60	80	110	130	V	
$V_{CEX(SUS)}$	40	60	80	110	130	V	
$R_{\theta\theta} = 100 \Omega, V_{BE} = 0 V$	30	50	70	100	120	V	
$V_{CEO(SUS)}$			5				V
V_{EBO}			7		4		A
$I_C (T_C \leq 106^\circ C)$			3		2		A
$I_E (T_C \leq 130^\circ C)$							A
P_T			40				W
$T_C \leq 25^\circ C$			16				W
$T_C > 25^\circ C \leq 100^\circ C$			Derate linearly 0.32				W/°C
$T_C > 100^\circ C$			1.8				W
$T_A \leq 25^\circ C$			Derate linearly 0.0144				W/°C
$T_A > 25^\circ C$			-65 to 150				°C
T_{sig}, T_j			235				°C
T_c							°C

‡ accordance with JEDEC registration data.

‡ For p-n-p devices, voltage and current values are negative.

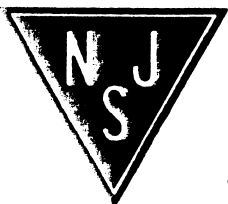
Dimensional Outlines



NOTES:

1. Position of lead to be measured 0.250-0.255 in. (6.350-6.477 mm) from case.

SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.140	0.190	3.56	4.82
A ₁	0.080	0.085	2.03	2.16
b	0.020	0.045	0.51	1.14
b ₁	0.045	0.070	1.14	1.77
C	—	0.125	—	3.18
c	0.015	0.025	0.38	0.63
D	0.560	0.625	14.23	15.87
D ₁	—	0.100	—	2.54
E	0.380	0.420	9.66	10.66
e	0.090	0.110	2.29	2.79
e ₁	0.190	0.210	4.83	5.33
e ₂	—	0.030	—	0.76
F	0.045	0.055	1.14	1.39
H	0.230	0.270	5.85	6.85
H ₁	0.355	0.370	9.02	9.40
H ₂	—	0.160	—	4.06
J ₁	0.080	0.115	2.04	2.92
L	0.500	0.562	12.70	14.27
L ₁	—	0.250	—	6.35
L ₂	0.400	0.410	10.16	10.41
phi P	0.139	0.161	3.531	4.089
Q	0.100	0.120	2.54	3.04



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

CHARACTERISTIC	TEST CONDITIONS [†]				LIMITS						UNITS
	VOLTAGE V dc		CURRENT A dc		2N6292 2N6293 2N6106 [‡] 2N6107 [‡]		2N6290 2N6291 2N6108 [‡] 2N6109 [‡]		2N6288 2N6289 2N6110 [‡] 2N6111 [‡]		
	V _{CE}	V _{BE}	I _C	I _B	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
I _{CE} R (R _{BE} = 100 Ω)	75 55 35				—	0.1	—	—	—	—	mA
(R _{BE} = 100 Ω, T _C = 150°C)	70 50 30				—	2	—	2	—	2	
* I _C EX (R _{BE} = 100 Ω)	75 56 37.5	-1.5 -1.5 -1.5			—	0.1	—	—	0.1	—	
(R _{BE} = 100 Ω, T _C = 150°C)	70 50 30	-1.5 -1.5 -1.5			—	2	—	—	2	—	
* I _{CEO}	60 40 20			0 0 0	— — —	1	— — —	— — —	— 1 —	— — 1	
* I _{EBO}		-5	0		—	1	—	1	—	1	
* V _{CEO(sus)} ^b			0.1 ^a	0	70	—	50	—	30	—	V
V _{CER(sus)} ^b (R _{BE} = 100 Ω)			0.1 ^a		80	—	60	—	40	—	
* h _{FE}	4 4 4 4		2 ^a 2.5 ^a 3 ^a 7 ^a		30 — — 2.3	150 — — —	— 30 — 2.3	— 150 — —	— — 30 2.3	— — 150 —	
* V _{BE}	4 4 4 4		2 ^a 2.5 ^a 3 ^a 7 ^a		— — — —	1.5 — — 3	— — — —	— 1.5 — 3	— — 1.5 —	— — 3 —	V
* V _{CE(sat)}			2 ^a 2.5 ^a 3 ^a 7 ^a	0.2 0.25 0.3 3	— — — —	1 — — 3.5	— — — —	— 1 — 3.5	— — — —	— — 1 3.5	
* h _{fe} (f = 1 MHz)											
2N6288-93	4		0.5		4	—	4	—	4	—	
2N6106-11	-4		-0.5		10	—	10	—	10	—	
* h _{fe} (f = 50 kHz)	4		0.5		20	—	20	—	20	—	
* f _T											
2N6288-93	4		0.5		10	—	10	—	10	—	MHz
2N6106-11	-4		-0.5		10	—	10	—	10	—	
* C _{obo} (f = 1 MHz)	10 ^c		0			250		250		250	pF
R _{θJC}						3.125		3.125		3.125	°C/W
R _{θJA}						70		70		70	

[†] In accordance with JEDEC registration data.
^a Pulsed: Pulse duration = 300 μs, duty factor = 0.018.
^b CAUTION: The sustaining voltage V_{CEO(sus)} and V_{CER(sus)} values are negative.
^c V_{CB} value.
[‡] For PNP devices, voltage and current values are negative.