

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

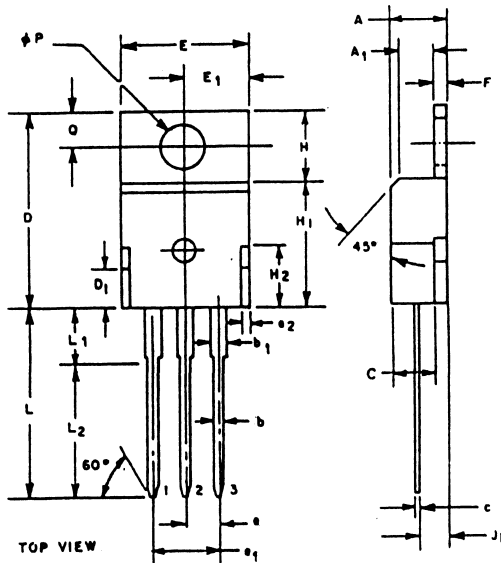
MAXIMUM RATINGS, Absolute-Maximum Values:

	N-P-N		P-N-P			
	2N6288 2N6289	2N6290 2N6291	2N6106‡ 2N6111‡	2N6108‡ 2N6109‡		2N6473 2N6475‡
V _{CEO}	40	60	80	110	130	V
V _{CEX(SUS)} R _{DS} = 100 Ω, V _{BE} = 0 V.....	40	60	80	110	130	V
V _{CEO(SUS)}	30	50	70	100	120	V
V _{ESD}	5					V
I _C (T _C ≤ 100°C).....	7					A
I _E (T _C ≤ 130°C).....	3					A
P _T T _C ≤ 25°C.....	40					W
T _C > 25°C ≤ 100°C.....	16					W
T _C > 25°C.....	Derate linearly 0.32					W/°C
T _A ≤ 25°C.....	1.8					W
T _A > 25°C.....	Derate linearly 0.0144					W/°C
T _{sig} , T _J	-65 to 150					°C
T _C At distances ≥ 1/8 in. (3.17 mm) from case for 10 s max.	235					°C

accordance with JEDEC registration data.

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

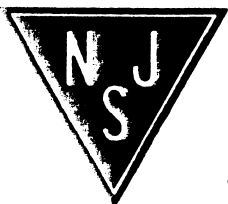
Dimensional Outlines



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



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	--	--	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	--	0.1		
(R _{BE} = 100 Ω, T _C = 150°C)	70 50 30	-1.5 -1.5 -1.5			--	2	--	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 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)	4		0.5		4	--	4	--	4	--		
2N6288-93												
2N6106-11	-4		-0.5		10	--	10	--	10	--		
* h _{fe} (f = 50 kHz)	4		0.5		20	--	20	--	20	--		
* f _T	4		0.5		10	--	10	--	10	--	MHz	
2N6288-93												
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.
^d For PNP devices, voltage and current values are negative.