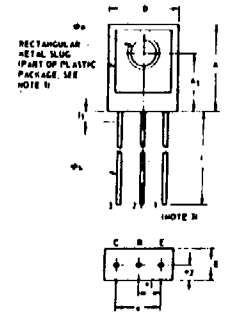


MAXIMUM RATINGS, Absolute-Maximum Values:

*V _{CB0}	-100	V
*V _{CEX} V _{BE} = 1.5 V reverse bias	-100	V
V _{CER(sus)} R _{BE} = 100 Ω	-90	V
V _{CEO(sus)}	-75	V
*V _{EBO}	-7	V
*I _C	-2	A
*I _B	-1	A
*P _T : T _C < 25°C	25	W



SYMBOL	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.395	0.395	9.78	10.03
A1	0.251	0.261	6.37	6.63
øD	0.018	0.018	0.41	0.46
C	0.852	-	21.39	-
C1	0.750	-	19.05	-
D	0.306	0.315	7.75	8.00
D1	0.300	-	7.62	-
D2	0.070	-	1.77	-
D3	0.0328	-	0.833	-
D4	0.021	0.041	0.533	1.04
ød	0.073	0.077	1.85	1.95
E	0.146	0.155	3.68	3.94
ø	0.195	0.205	4.95	5.21
ø1	0.095	0.105	2.41	2.67
ø2	0.070	0.080	1.78	2.03
L	0.725	0.745	18.41	18.91
ø1	0.125	0.250	3.17	6.35
øp	0.112	0.118	2.84	2.99

ELECTRICAL CHARACTERISTICS, At Case Temperature (T_C) = 25°C unless otherwise specified

CHARACTERISTIC	TEST CONDITIONS*					LIMITS		UNITS
	VOLTAGE V dc			CURRENT mA dc		Min.	Max.	
	V _{CB}	V _{CE}	V _{BE}	I _C	I _B			
V _{CB0} I _E = 0	80					-	0.5	μA
I _{CEO}		60			0	-	1	mA
I _{CEV}		45			0	-	-	
T _C = 100°C		100	-1.5			-	0.1	
		75	-1.5			-	-	
		70	-1.5			-	0.5	
		45	-1.5			-	-	
V _{EBO}			-7	0		-	0.1	mA
			-5	0		-	-	
V _{(BR)EBO} I _E = 0.1 mA				0		7	-	V
V _{(BR)CEV}			-1.5	0.1		100	-	V
V _{(BR)CEO}				100	0	75	-	V
V _{CER(sus)} ^a R _{BE} = 100 Ω				100		90	-	V
V _{CEO(sus)} ^a				100	0	75	-	V
V _{CE(sat)}				-500	-50	-	-0.7	V
V _{BE(sat)}				500	50	-	1.2	V
C _{obo} f = 1 MHz						25	40	pF
	-10							
h _{FE}		-4		-500 ^b		30	150	
		-4		-1000 ^b		10	-	
I _{S/b} t = 0.4s, nonrep.		-50				-150	-	mA
f _T		4		50		50	-	
h _{fe} f = 10 MHz		4		50		5	-	

* In accordance with JEDEC registration data format JS-6/RDF-1.
 † For p-n-p devices, voltage and current values are negative.
 ‡ CAUTION: The sustaining voltages V_{CEO(sus)} and V_{CER(sus)} MUST NOT be measured on a curve tracer.
 § Pulsed; pulse duration < 300 μs, duty factor < 0.02.

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 data sheets are current before placing orders.

