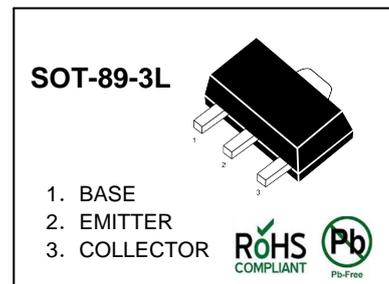


NPN SILICON PLANAR MEDIUM POWER TRANSISTORS

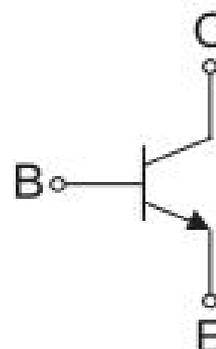
FEATURES

- * 100 Volt V_{CEO}
- * Gain of 20 at $I_C = 0.5$ Amp
- * $P_{tot} = 1$ Watt



Model	Marking
2N6716	2N6716
2N6717	2N6717
2N6718	2N6718

Equivalent Circuit



ABSOLUTE MAXIMUM RATINGS.

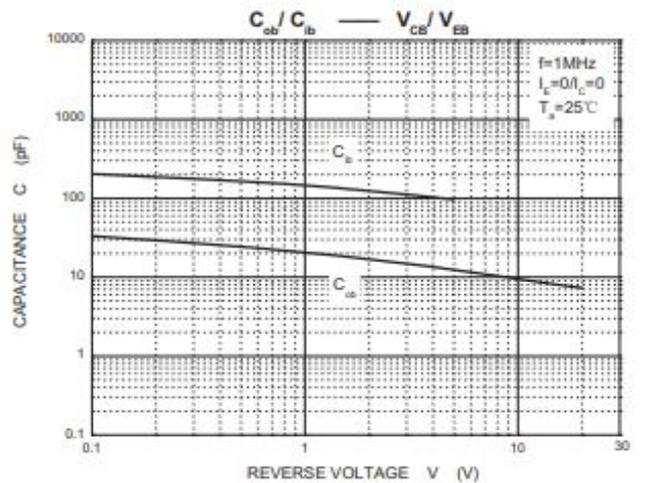
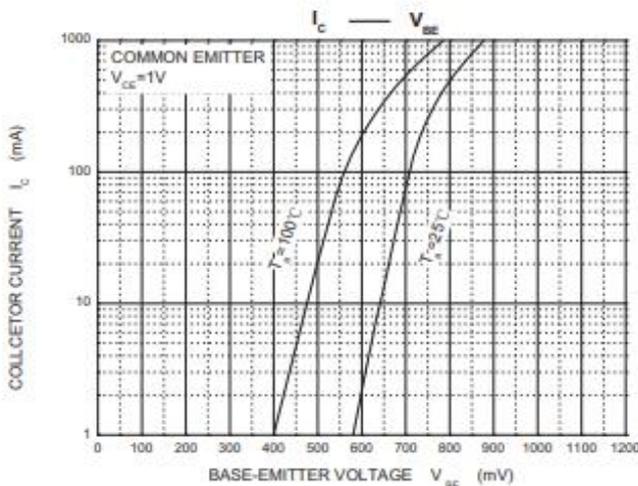
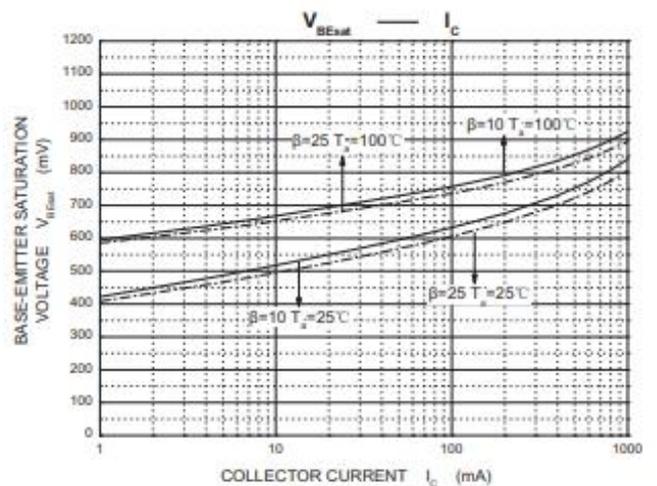
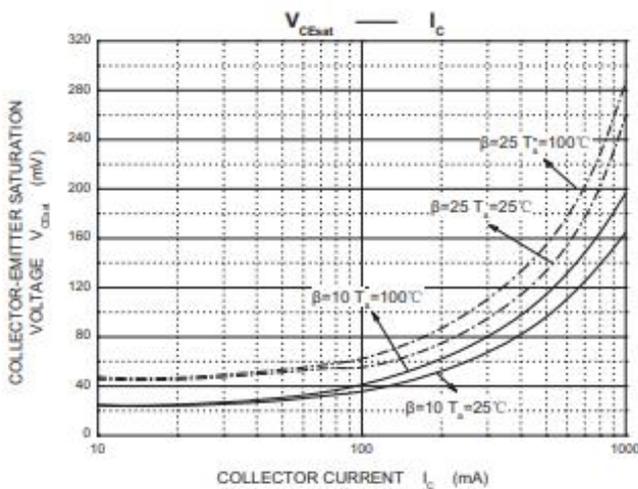
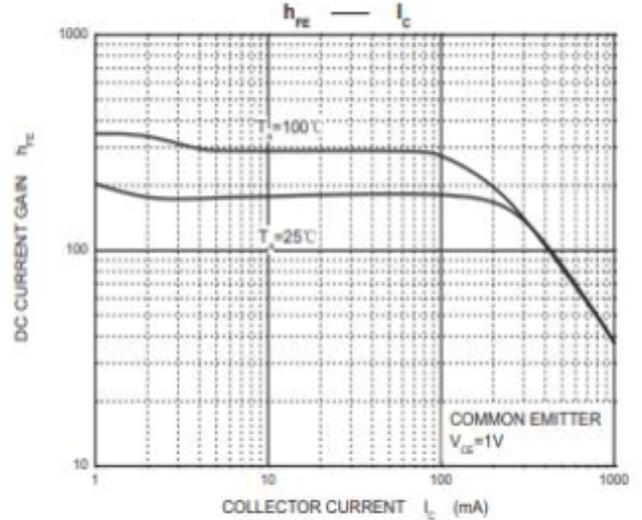
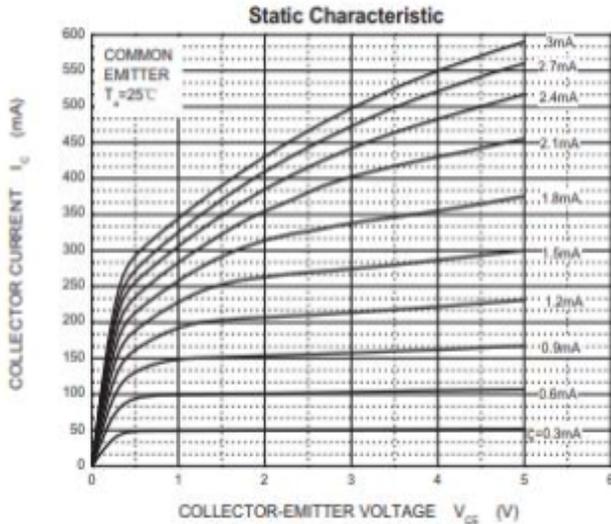
PARAMETER	SYMBOL	2N6716	2N6717	2N6718	UNIT
Collector-Base Voltage	V_{CBO}	60	80	100	V
Collector-Emitter Voltage	V_{CEO}	60	80	100	V
Emitter-Base Voltage	V_{EBO}	5			V
Peak Pulse Current	I_{CM}	2			A
Continuouz Collector Current	I_C	1			A
Power Dizzipation at $T_{amb} = 25^\circ\text{C}$	P_{tot}	1			W
Operating and Storage Temperature Range	$T_j; T_{ztg}$	-55 to +200			$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	2N6716		2N6717		2N6718		UNIT	CONDITIONS.
		MIN.	MAX	MIN.	MAX	MIN.	MAX		
Collector-Baze Breakdown Voltage	$V_{(BR)CBO}$	60		80		100		V	$I_C=0.1mA, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	60		80		100		V	$I_C=1mA, I_B=0^*$
Emitter-Baze Breakdown Voltage	$V_{(BR)EBO}$	5		5		5		V	$I_E=1mA, I_C=0$
Collector Cut-Off Current	I_{CBO}		1		1		1	μA μA μA	$V_{CB}=60V, I_E=0$ $V_{CB}=80V, I_E=0$ $V_{CB}=100V, I_E=0$
Emitter Cut-Off Current	I_{EBO}		1		1		1	μA	$V_{EB}=5V, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(zat)}$		0.5 0.35		0.5 0.35		0.5 0.35	V	$I_C=250mA, I_B=10mA^*$ $I_C=250mA, I_B=25mA^*$
Baze-Emitter Turn-On Voltage	$V_{BE(on)}$		1.2		1.2		1.2	V	$I_C=250mA, V_{CE}=1V^*$
Static Forward Current Tranzfer Ratio	h_{FE}	80 50 20	250	80 50 20	250	80 50 20	250		$I_C=50mA, V_{CE}=1V^*$ $I_C=250mA, V_{CE}=1V^*$ $I_C=500mA, V_{CE}=1V^*$
Tranzition Frequency	f_T	50	500	50	500	50	500	MHz	$I_C=50mA, V_{CE}=10V$
Collector Baze Capacitance	C_{CB}		30		30		30	pF	$V_{CE}=10V, f=1MHz$

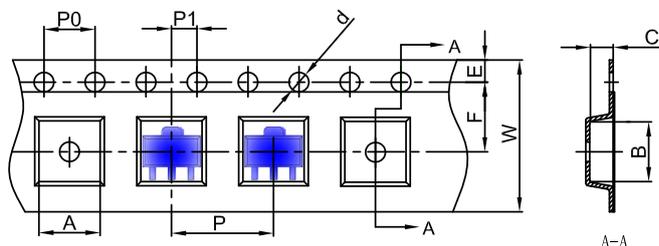
*Meazured under pulzed conditionz. Pulze width=300 μz . Duty cycle $\leq 2\%$

Typical Characteristics



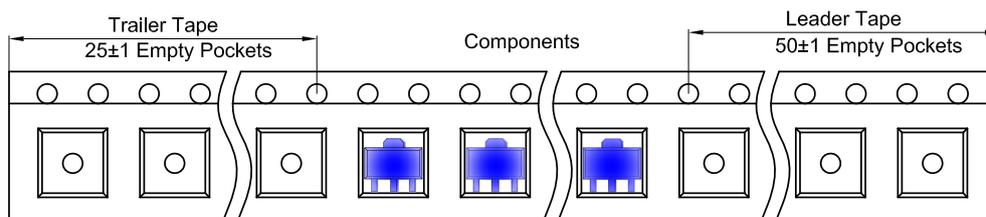
SOT-89-3L Tape and Reel

SOT-89-3L Embossed Carrier Tape

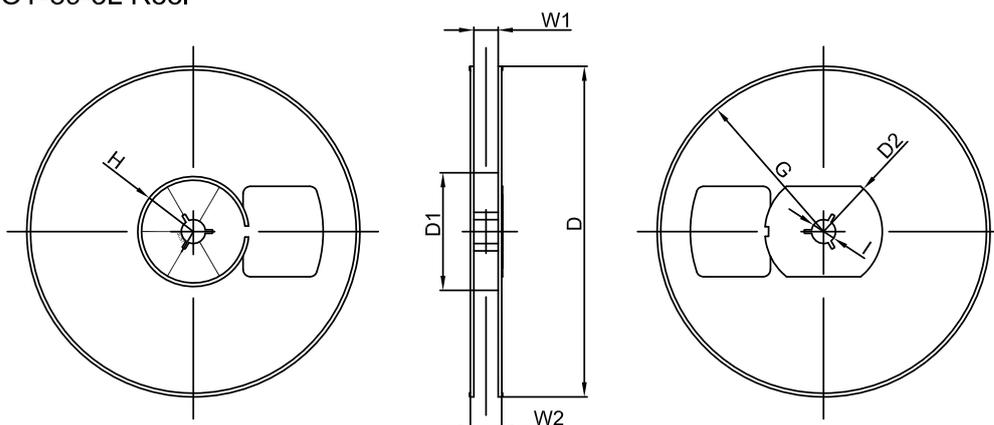


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-89-3L	4.85	4.45	1.85	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00

SOT-89-3L Tape Leader and Trailer

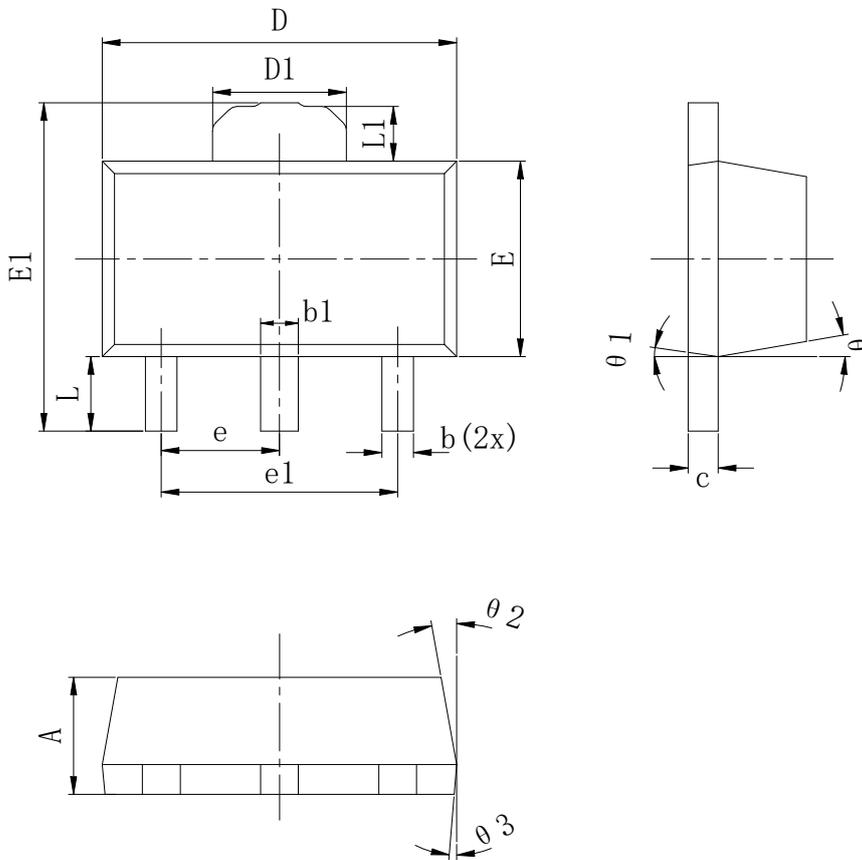


SOT-89-3L Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø180.00	60.00	R32.00	R86.50	R30.00	Ø13.00	13.20	16.50

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
1000 pcs	7 inch	10,000 pcs	203×203×195	40,000 pcs	438×438×220	



SYMBOL	MILLIMETER		
	MIN	TYP.	MAX
A	1.400	1.500	1.600
b	0.320	0.400	0.520
b1	0.400	0.480	0.580
c	0.350	0.381	0.440
D	4.400	4.500	4.600
D1	1.700REF		
E	2.400	2.500	2.600
E1	4.050	4.200	4.350
e	1.500TYP.		
e1	3.000TYP.		
L	0.800	0.950	1.200
L1	0.700REF		
theta	10° REF		
theta 1	8° REF		
theta 2	10° REF		
theta 3	5° REF		

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