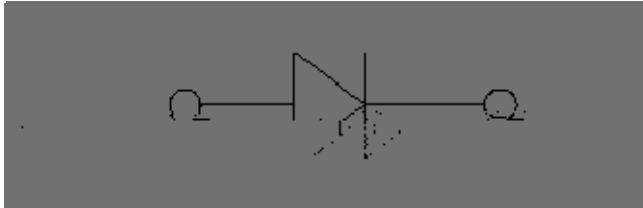


V_R 100V
 I_{FAV} 250mA

Extreme fast switches



: SOD323
: Tin plated leads, solderable per
J-STD-002 and JESD22-B102
Cathode line denotes the cathode end
A6

($T_a=25$ Unless otherwise specified)

Repetitive peak reverse voltage	V_{RRM}	V		100
Peak forward surge current	I_{FSM}	A	$t_p=300\mu s$	2
Average forward current	I_{FAV}	mA		250
Power dissipation	P_{tot}	mW		200
Thermal Resistance	R_{thJA}	K/W		625
Maximum junction temperature	T_j			-55 to +150
Storage temperature range	T_{stg}			-55 to +150

$T_a=25$ Unless otherwise specified

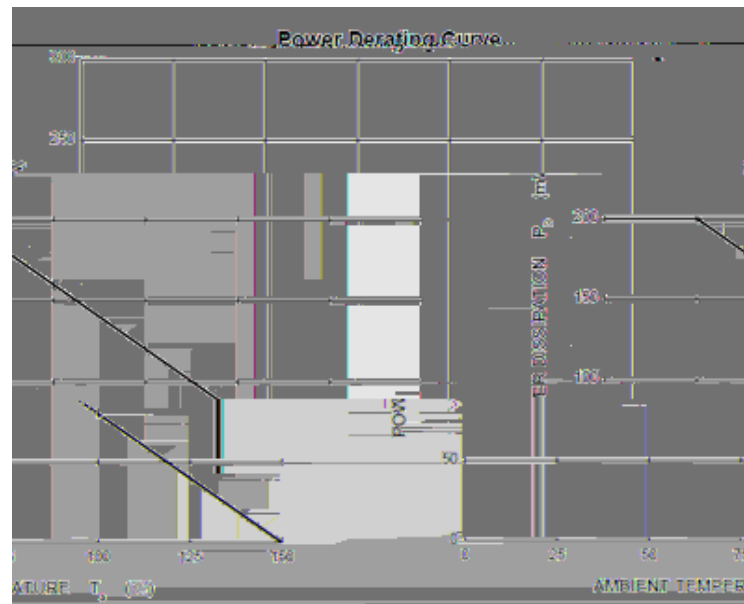
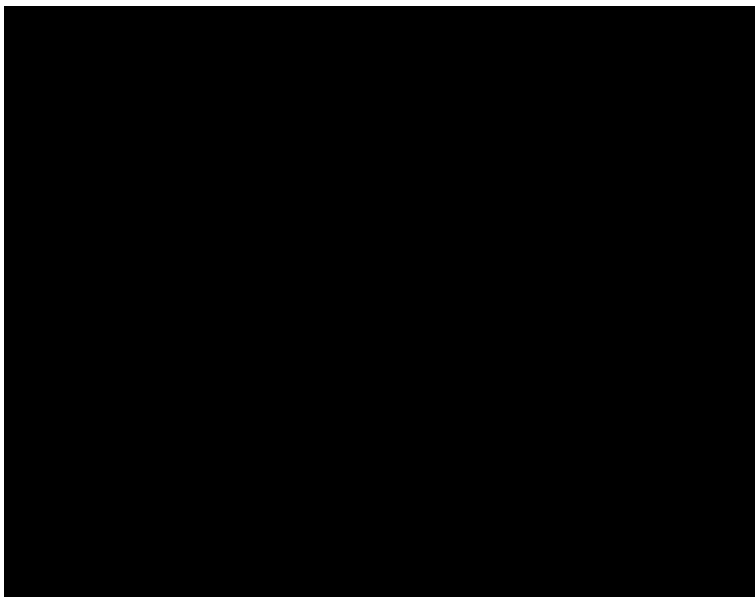
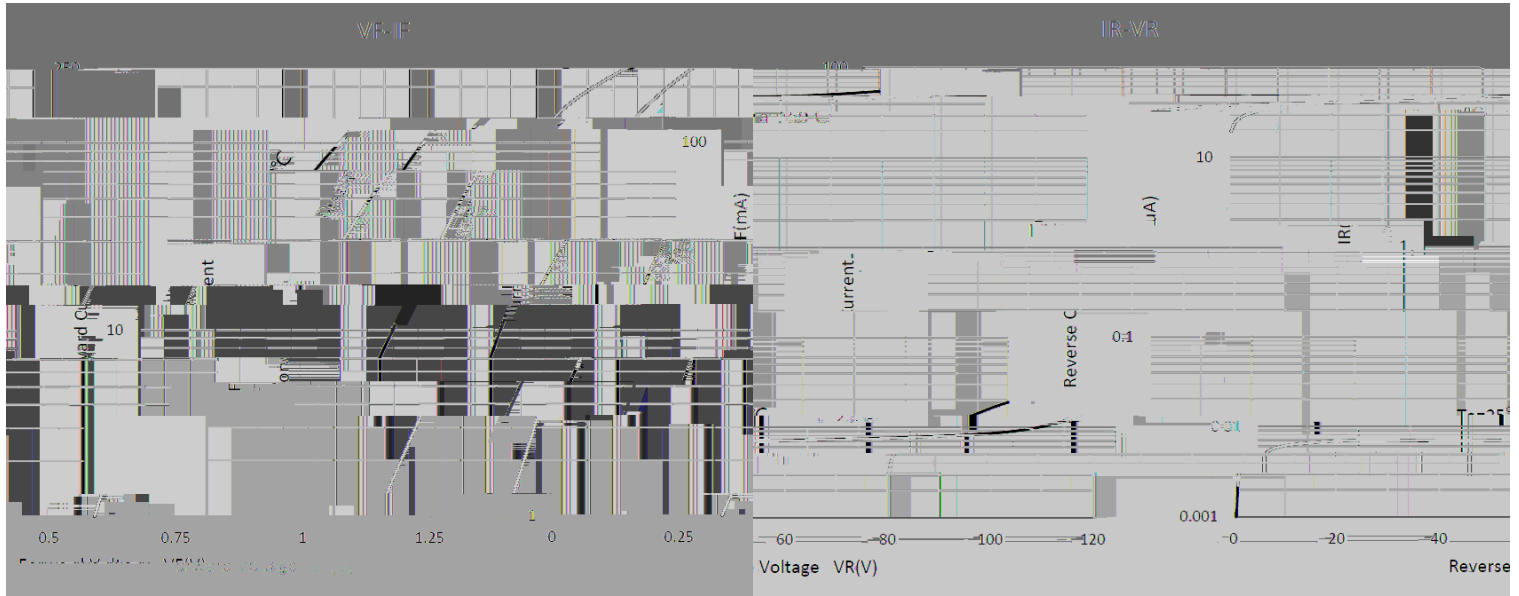
Maximum Forward voltage	VF	V	$I_F=1mA$	0.715
			$I_F=10mA$	0.855
			$I_F=50mA$	1.00
			$I_F=150mA$	1.25
Maximum Reverse current	IR	nA	$V_R=20V$	25
	IR	μA	$V_R=75V$	1.0
Minimum Breakdown voltage	V_R	V	$I_R=100\mu A$	100
Maximum Diode capacitance	C_D	pF	$V_R=V_F=0V, f=1MHz$	4
Maximum Reverse recovery time	t_{rr}	ns	$I_F=10mA, V_R=6V, I_{rr}=1mA, R_L=100$	4

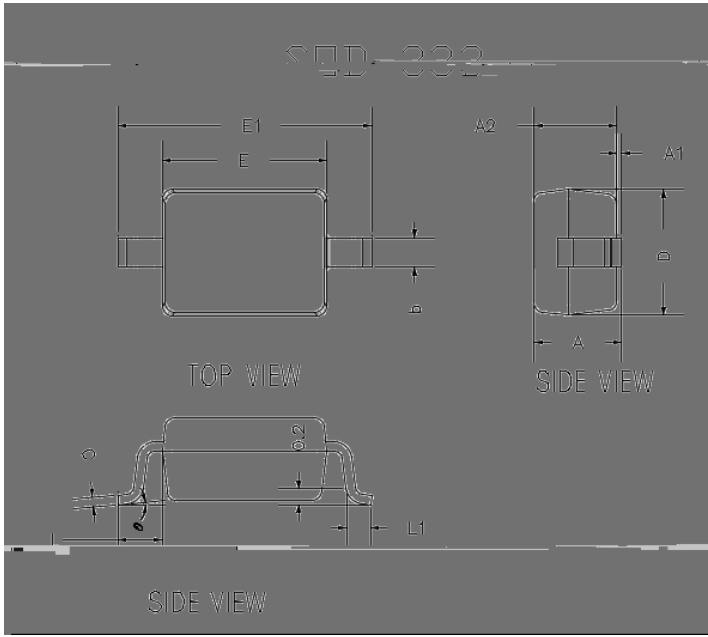


(Example)

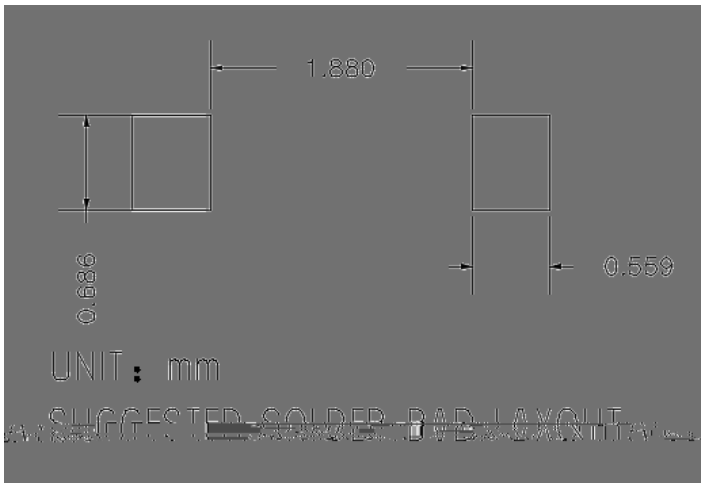
BAS316	F2	Approximate 0.0048	3000	30000	120000	7" reel
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(Typical)





DIM	DIMENSIONS			
	INCHES		MM	
	REF	MAX	MIN	MAX
A	---	0.0030	---	1.0000
A1	0.0000	0.0030	0.0000	0.1000
A2	0.0014	0.0054	0.0000	0.7000
b	0.0030	0.0157	0.2500	0.4000
0.1500	---	0.0030	0.0030	0.0030
0.2000	---	0.0030	0.0030	0.0030
0.3000	---	0.0030	0.0030	0.0030
0.40	---	0.0030	0.0030	0.0030
0.50	---	0.0030	0.0030	0.0030
0.60	---	0.0030	0.0030	0.0030
0.70	---	0.0030	0.0030	0.0030
0.80	---	0.0030	0.0030	0.0030
0.90	---	0.0030	0.0030	0.0030
1.00	---	0.0030	0.0030	0.0030
1.10	---	0.0030	0.0030	0.0030
1.20	---	0.0030	0.0030	0.0030
1.30	---	0.0030	0.0030	0.0030
1.40	---	0.0030	0.0030	0.0030
1.50	---	0.0030	0.0030	0.0030
1.60	---	0.0030	0.0030	0.0030
1.70	---	0.0030	0.0030	0.0030
1.80	---	0.0030	0.0030	0.0030
1.90	---	0.0030	0.0030	0.0030
2.00	---	0.0030	0.0030	0.0030
2.10	---	0.0030	0.0030	0.0030
2.20	---	0.0030	0.0030	0.0030
2.30	---	0.0030	0.0030	0.0030
2.40	---	0.0030	0.0030	0.0030
2.50	---	0.0030	0.0030	0.0030
2.60	---	0.0030	0.0030	0.0030
2.70	---	0.0030	0.0030	0.0030
2.80	---	0.0030	0.0030	0.0030
2.90	---	0.0030	0.0030	0.0030
3.00	---	0.0030	0.0030	0.0030
3.10	---	0.0030	0.0030	0.0030
3.20	---	0.0030	0.0030	0.0030
3.30	---	0.0030	0.0030	0.0030
3.40	---	0.0030	0.0030	0.0030
3.50	---	0.0030	0.0030	0.0030
3.60	---	0.0030	0.0030	0.0030
3.70	---	0.0030	0.0030	0.0030
3.80	---	0.0030	0.0030	0.0030
3.90	---	0.0030	0.0030	0.0030
4.00	---	0.0030	0.0030	0.0030
4.10	---	0.0030	0.0030	0.0030
4.20	---	0.0030	0.0030	0.0030
4.30	---	0.0030	0.0030	0.0030
4.40	---	0.0030	0.0030	0.0030
4.50	---	0.0030	0.0030	0.0030
4.60	---	0.0030	0.0030	0.0030
4.70	---	0.0030	0.0030	0.0030
4.80	---	0.0030	0.0030	0.0030
4.90	---	0.0030	0.0030	0.0030
5.00	---	0.0030	0.0030	0.0030
5.10	---	0.0030	0.0030	0.0030
5.20	---	0.0030	0.0030	0.0030
5.30	---	0.0030	0.0030	0.0030
5.40	---	0.0030	0.0030	0.0030
5.50	---	0.0030	0.0030	0.0030
5.60	---	0.0030	0.0030	0.0030
5.70	---	0.0030	0.0030	0.0030
5.80	---	0.0030	0.0030	0.0030
5.90	---	0.0030	0.0030	0.0030
6.00	---	0.0030	0.0030	0.0030
6.10	---	0.0030	0.0030	0.0030
6.20	---	0.0030	0.0030	0.0030
6.30	---	0.0030	0.0030	0.0030
6.40	---	0.0030	0.0030	0.0030
6.50	---	0.0030	0.0030	0.0030
6.60	---	0.0030	0.0030	0.0030
6.70	---	0.0030	0.0030	0.0030
6.80	---	0.0030	0.0030	0.0030
6.90	---	0.0030	0.0030	0.0030
7.00	---	0.0030	0.0030	0.0030
7.10	---	0.0030	0.0030	0.0030
7.20	---	0.0030	0.0030	0.0030
7.30	---	0.0030	0.0030	0.0030
7.40	---	0.0030	0.0030	0.0030
7.50	---	0.0030	0.0030	0.0030
7.60	---	0.0030	0.0030	0.0030
7.70	---	0.0030	0.0030	0.0030
7.80	---	0.0030	0.0030	0.0030
7.90	---	0.0030	0.0030	0.0030
8.00	---	0.0030	0.0030	0.0030
8.10	---	0.0030	0.0030	0.0030
8.20	---	0.0030	0.0030	0.0030
8.30	---	0.0030	0.0030	0.0030
8.40	---	0.0030	0.0030	0.0030
8.50	---	0.0030	0.0030	0.0030
8.60	---	0.0030	0.0030	0.0030
8.70	---	0.0030	0.0030	0.0030
8.80	---	0.0030	0.0030	0.0030
8.90	---	0.0030	0.0030	0.0030
9.00	---	0.0030	0.0030	0.0030
9.10	---	0.0030	0.0030	0.0030
9.20	---	0.0030	0.0030	0.0030
9.30	---	0.0030	0.0030	0.0030
9.40	---	0.0030	0.0030	0.0030
9.50	---	0.0030	0.0030	0.0030
9.60	---	0.0030	0.0030	0.0030
9.70	---	0.0030	0.0030	0.0030
9.80	---	0.0030	0.0030	0.0030
9.90	---	0.0030	0.0030	0.0030
10.00	---	0.0030	0.0030	0.0030





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