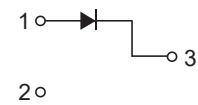


SOT-23
FEATURES

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

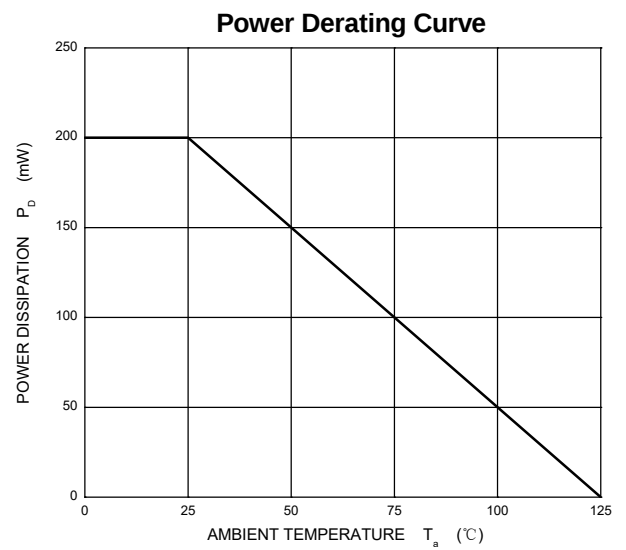
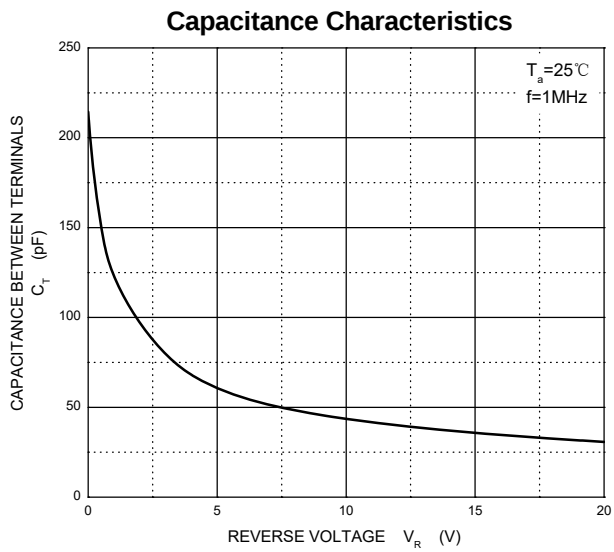
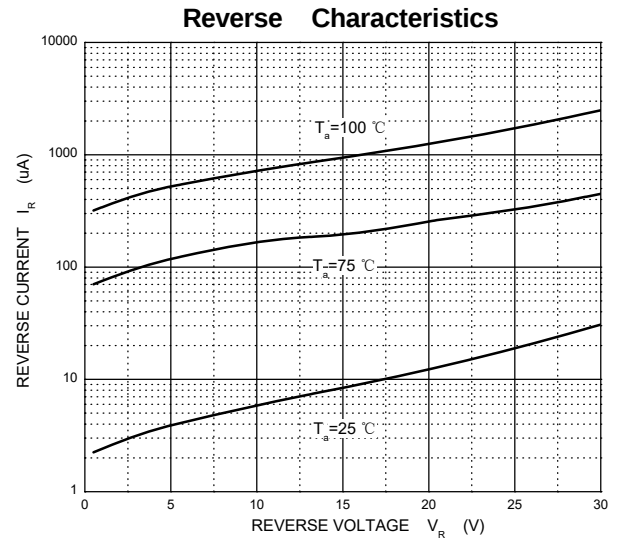
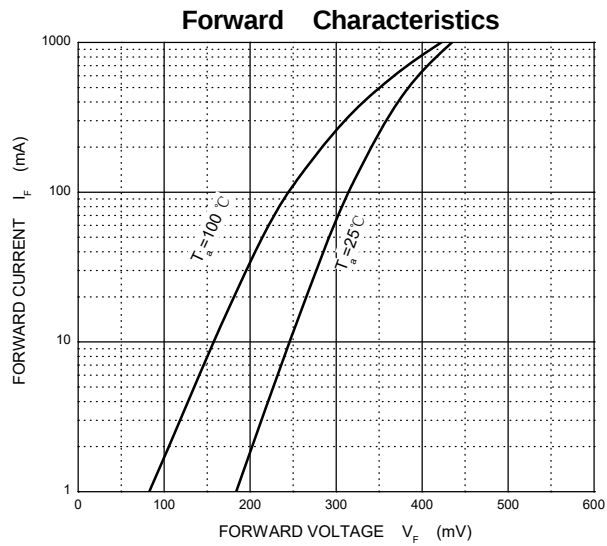

Marking: D2E
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	25	V
DC reverse voltage	V_R	20	V
Mean rectifying current	I_F	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	3	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	℃/W
Operating Junction Temperature Range	T_j	-40 ~ +125	℃
Storage Temperature Range	T_{stg}	-55 ~ +150	℃

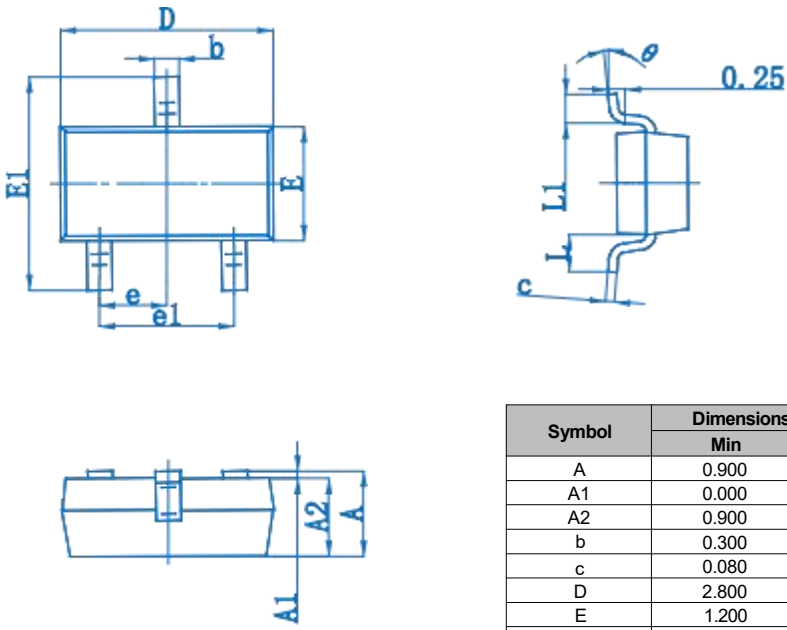
Electrical Ratings @Ta=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.45	V	$I_F=1A$
Reverse current	I_R			200	μA	$V_R=20V$

Typical Characteristics

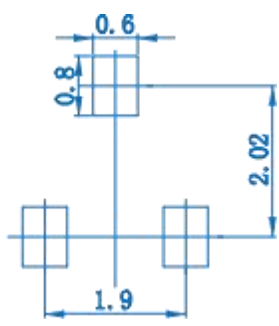


SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



- Note:
1. Controlling dimension; in millimeters.
 2. General tolerance: ± 0.05 mm.
 3. The pad layout is for reference purposes only.