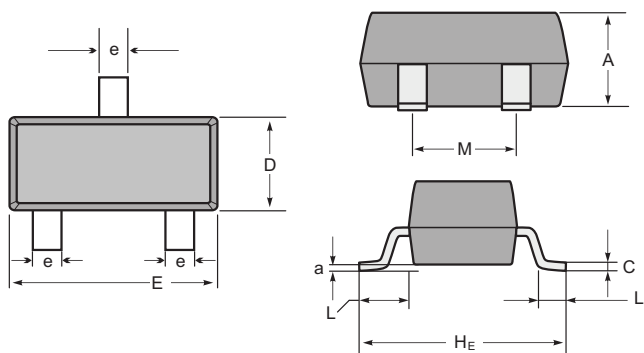
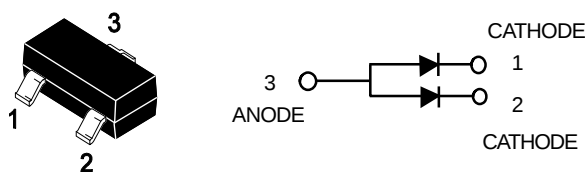


FEATURES

- Low forward voltage : $V_F(3) = 0.92V$ (typ.)
- Fast reverse recovery time : $t_{rr} = 1.6ns$ (typ.)
- Small total capacitance : $C_T = 2.2pF$ (typ.)
- We declare that the material of product compliance with RoHS requirements and Halogen Free.



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

MAXIMUM RATINGS($T_a = 25^\circ C$)

Parameter	Symbol	Limits	Unit
Maximum (peak) reverse voltage	VRM	85	V
Reverse voltage	VR	80	V
Maximum (peak) forward current	IFM	300(Note 1)	mA
Average forward current	IO	100(Note 1)	mA
Surge current (10ms)	IFSM	2(Note 1)	A
Power dissipation	P	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	Tstg	-55 to +125	°C

1. Unit rating. Total rating = Unit rating $\times$ 1.5.

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ELECTRICAL CHARACTERISTICS (Ta= 25°C)

CHARACTERISTICS	Symbol	Min	Typ.	Max	Unit
Forward voltage (IF =1mA)	VF	-	0.61	-	V
(IF =10mA)		-	0.74	-	
(IF =100mA)		-	0.9	1.2	
Reverse current (VR = 30V)	IR	-	-	0.1	μA
(VR=80V)		-	-	0.5	
Total capacitance (f=1MHz,VR =0)	CT	-	2.2	4	pF
Reverse Recovery Time (IF=10mA)	Trr	-	1.6	4	nS

RATING AND CHARACTERISTIC CURVES (1SS181)

