

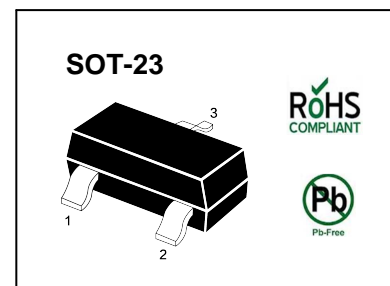
SWITCHING DIODES

FEATURES

Low forward voltage : $V_{F(3)}=0.92V(\text{typ.})$

Fast reverse recovery time : $t_{rr}=1.6ns(\text{typ.})$

MARKING: D3



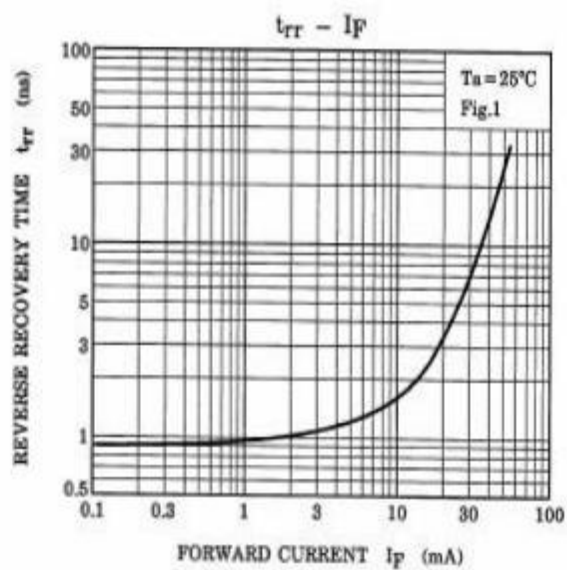
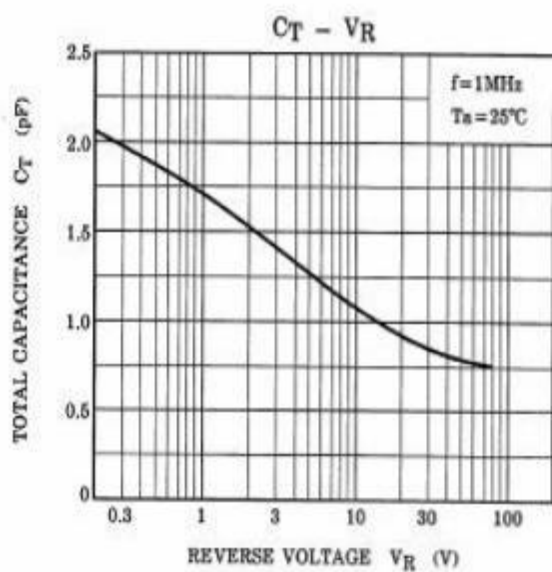
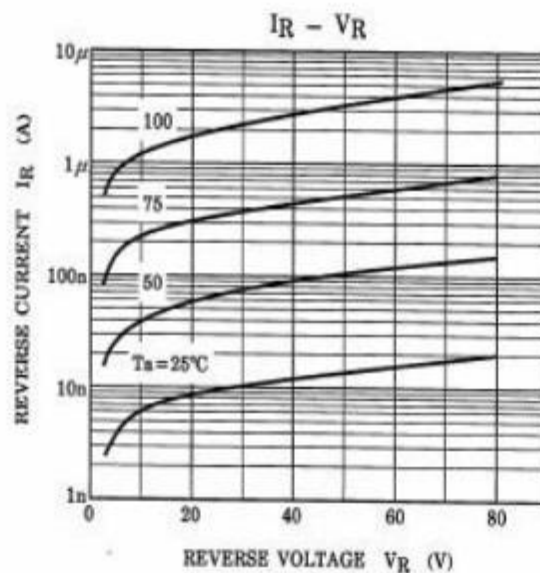
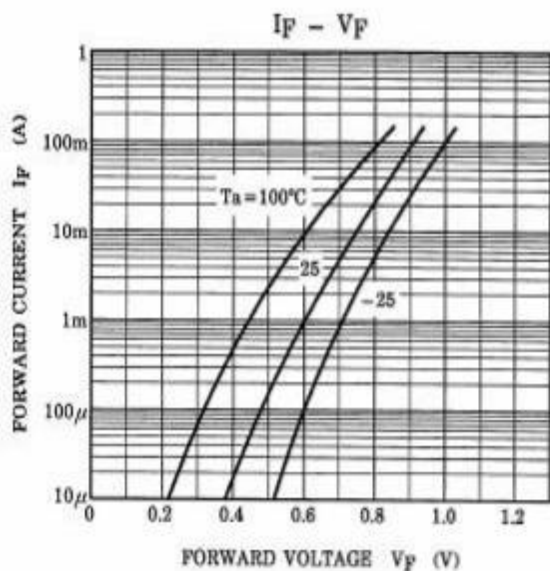
Maximum Ratings @ $T_A=25^{\circ}C$

Para	Symbol	Limits	Unit
Non-Repetitive Peak reverse	V_{RM}	85	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_o	100	mA
Power Dissipation	P_D	150	mW
Junction temperature	T_J	125	$^{\circ}C$
Storage temperature range	T_{STG}	-55-125	$^{\circ}C$

Electrical Characteristics @ $T_A=25^{\circ}C$

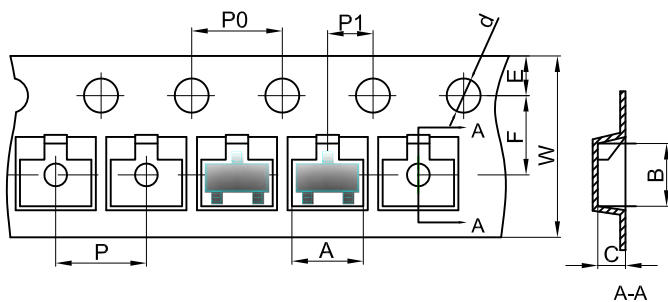
Para	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	80			V	$I_R=100\mu A$
Forward voltage	V_{F1}		0.61		V	$I_F=1mA$
	V_{F2}		0.74		V	$I_F=10mA$
	V_{F3}		0.92	1.2	V	$I_F=100mA$
Reverse current	I_{R1}			0.1	μA	$V_R=30V$
	I_{R2}			0.5	μA	$V_R=80V$
Capacitance between terminals	C_T		2.2	4.0	pF	$V_R=0, f=1MHz$
Reverse recovery time	t_{rr}		1.6	4.0	ns	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R$

Typical Characteristics



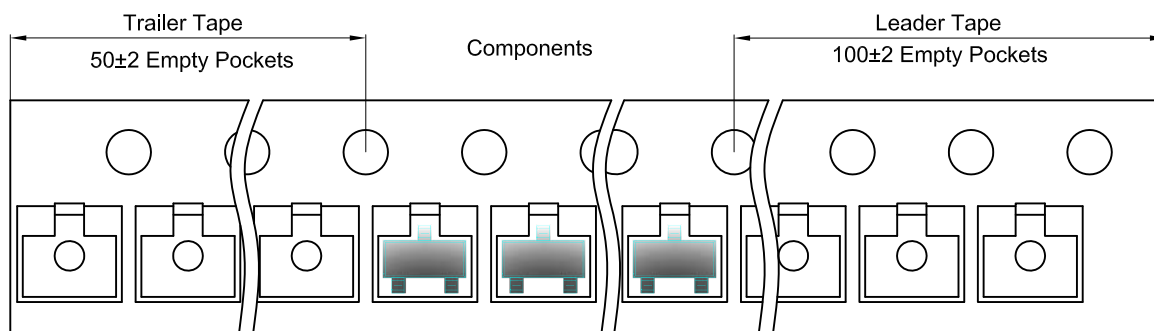
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

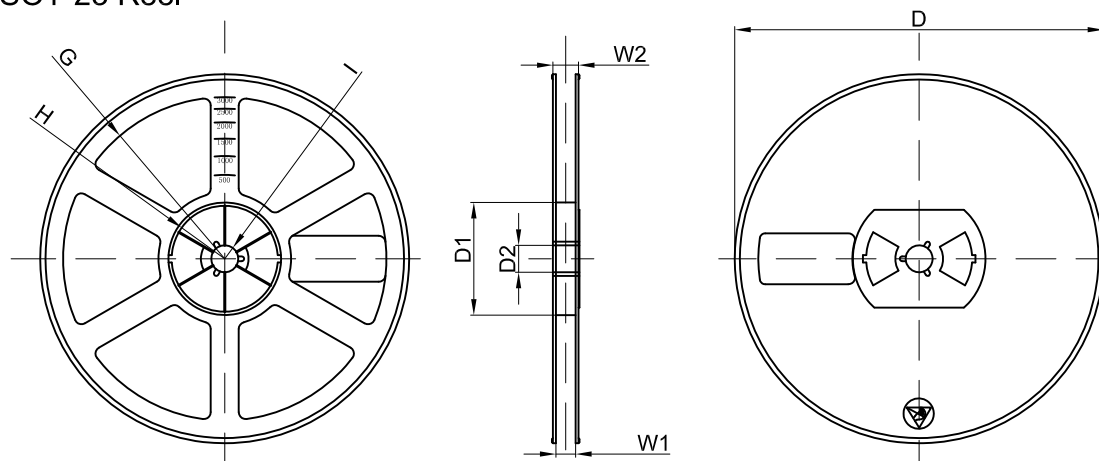


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer

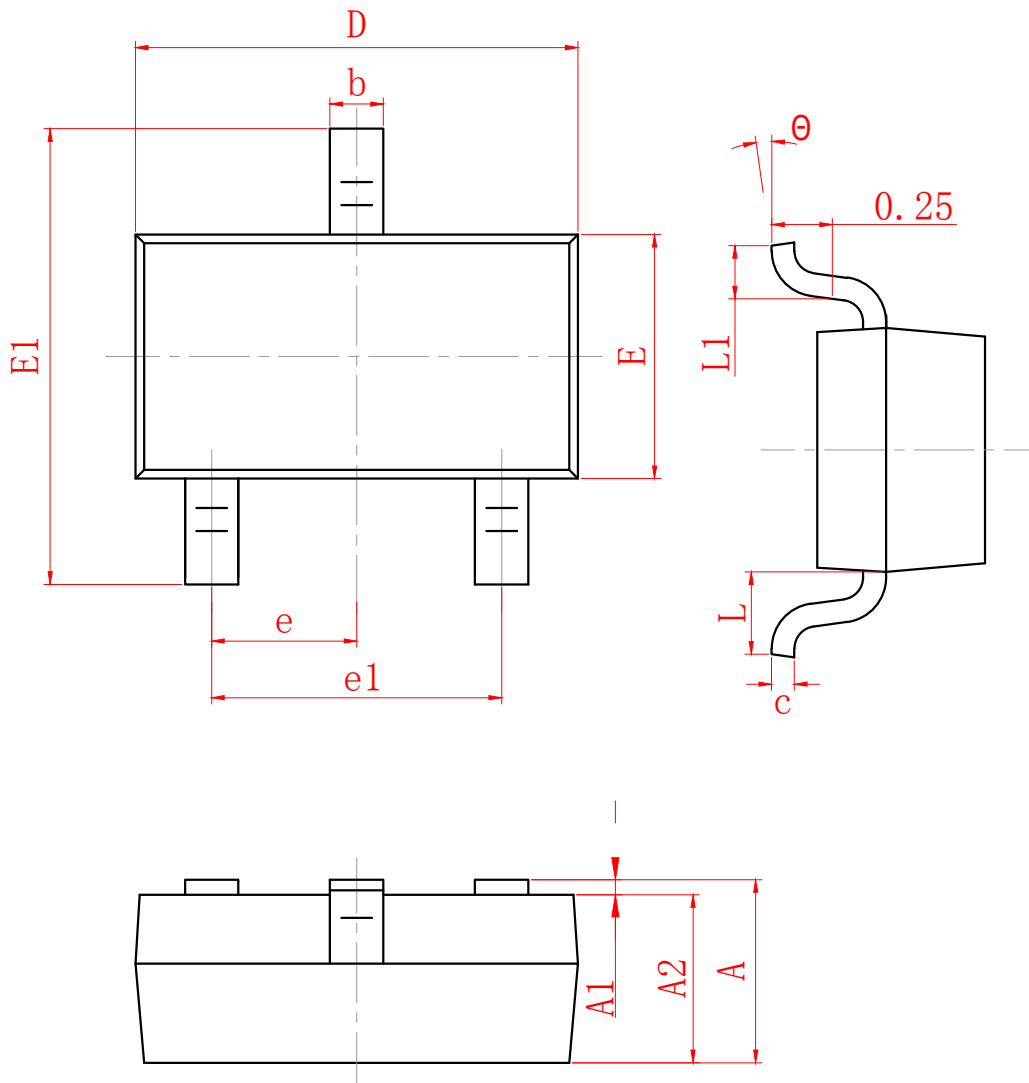


SOT-23 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
θ	0°	8°

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