

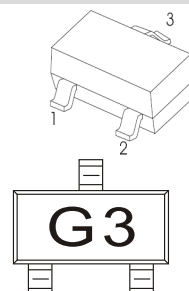
PRIMARY CHARACTERISTICS	
P_D	150mW
V_{RRM}	85V
I_O	100mA
V_F	600mV
$T_{J\ Max}$	150°C

FEATURES

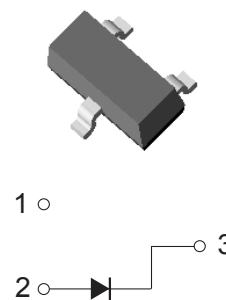
- Low Forward Voltage
- Fast reverse recovery time
- Moisture Sensitivity Level 1

SOT-23

PACKAGE



MARKING: G3



MECHANICAL DATA

- CASE : TRANSFER MOLDED
- POLARITY : AS MARKED
- TERMINALS : PURETIN PLATED

Maximum Ratings @Ta=25°C

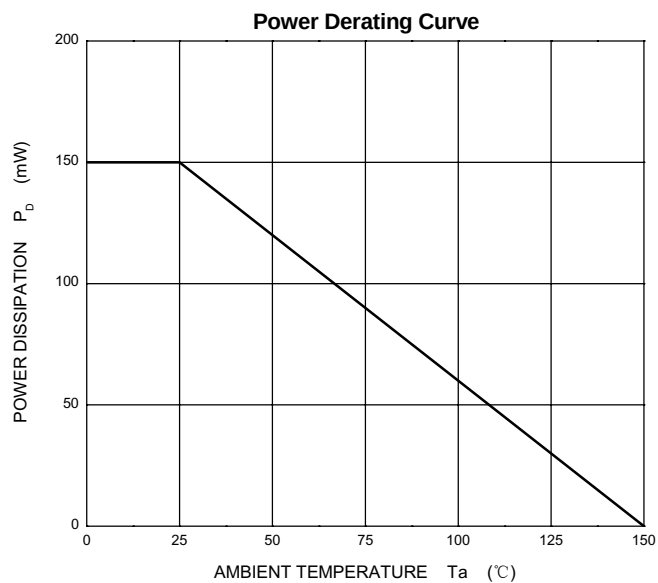
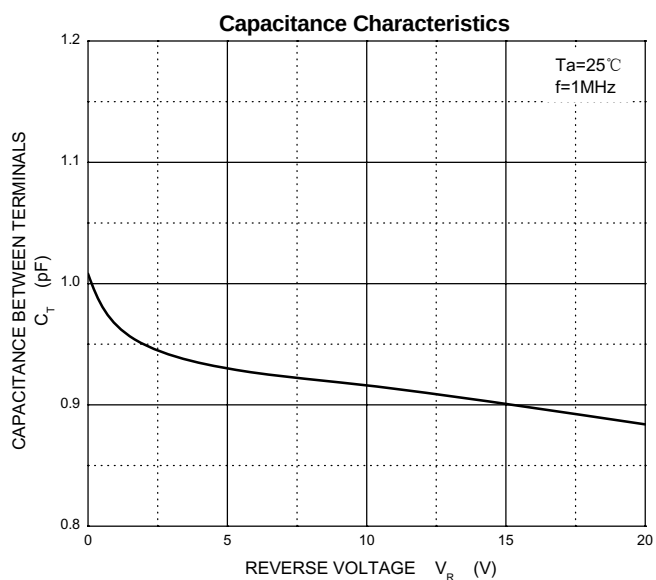
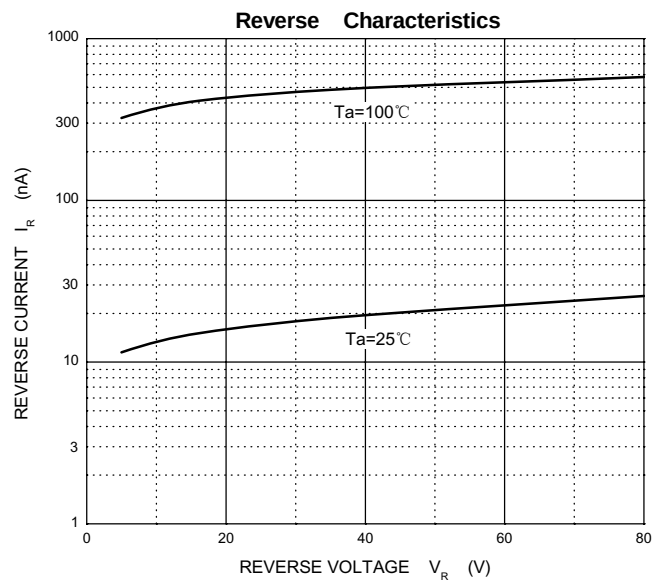
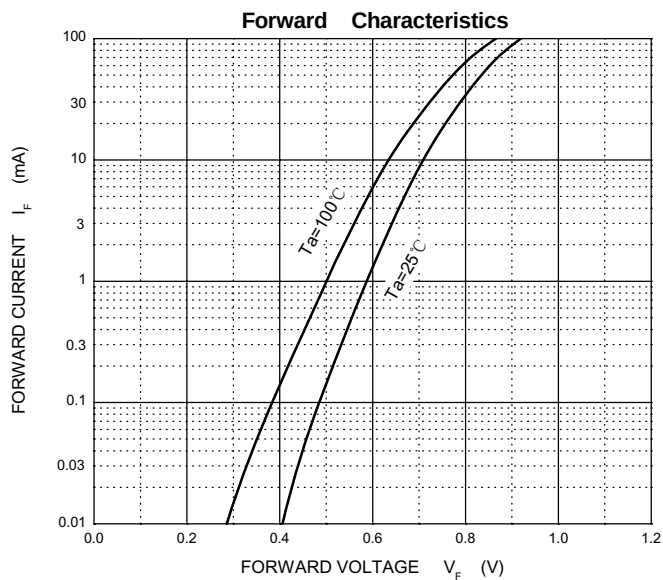
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

Electrical Characteristics @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	80			V	$I_R=100\mu A$
Forward voltage	V_{F1}		0.60		V	$I_F=1mA$
	V_{F2}		0.72		V	$I_F=10mA$
	V_{F3}		0.90	1.2	V	$I_F=100mA$
Reverse current	I_{R1}			0.1	uA	$V_R=30V$
	I_{R2}			0.5	uA	$V_R=80V$
Capacitance between terminals	C_T		0.9	3.0	pF	$V_R=0, f=1MHz$
Reverse recovery time	t_{rr}		1.6	4.0	ns	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R$



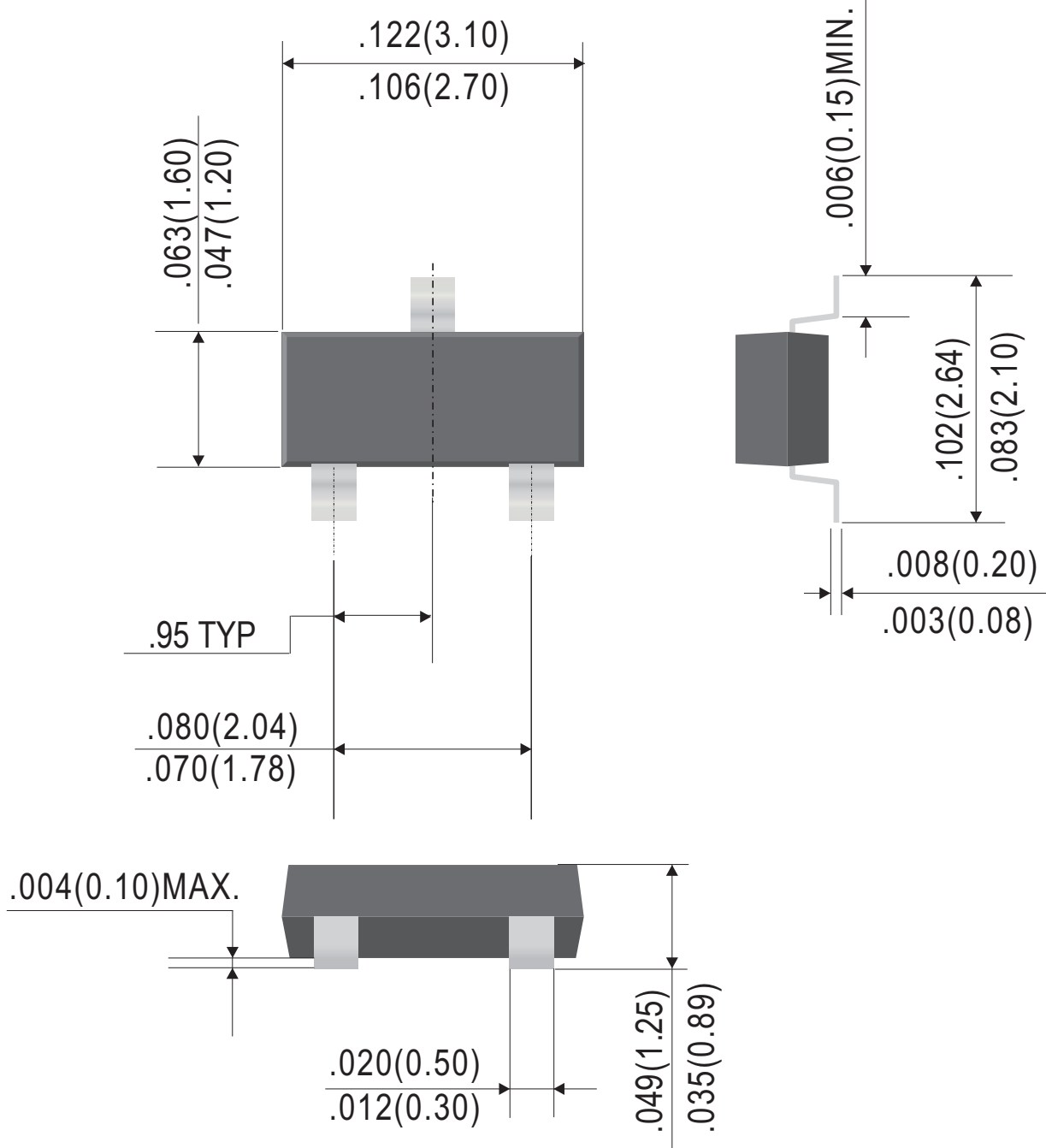
Typical Characteristics





Outline Drawing

SOT-23



Dimensions in inches and (millimeters)

Rev.E

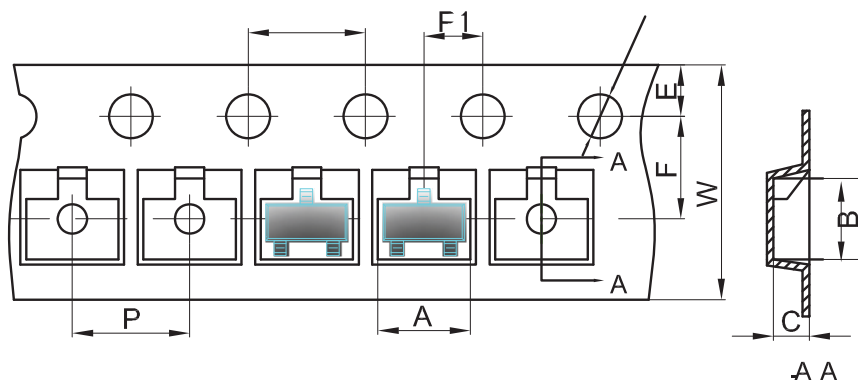


Suggested Soldering Pad Layout	SOT-23
0.0435 (1.10) 0.0435 (1.10) 0.0355 (0.90) 0.0315 (0.80) Dimensions in inches and (millimeters)	
RevA	

Reel Packing

PACKAGE	PER REEL EA	REEL DIA (m/m)	BOX SIZE (m/m)	PER BOX EA	CARTION (m/m)	PER CARTION EA	GROSS WEIGHT (Kg)
SOT-23	3,000	178	192*195*136	30,000	440*410*410	360,000	15.0

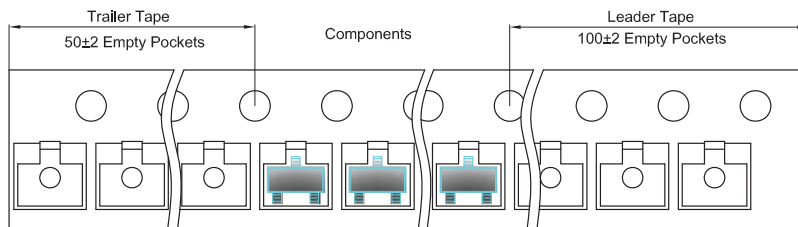
SOT-23 Embossed Carrier Tape



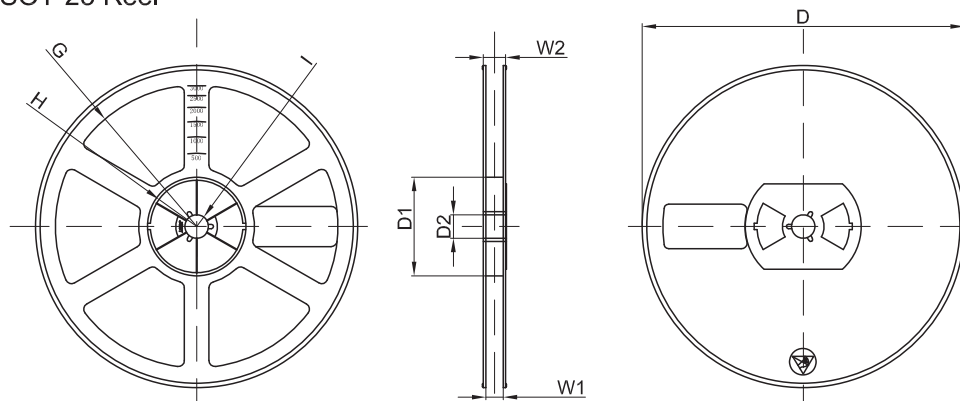
Dimensions are in millimeter

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
(Tolerance)	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+/-0.1	+0.3/-0.1

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
Tolerance	+/-2	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1	+/-1

Ordering Information:

Device PN	Packing
1SS196 -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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