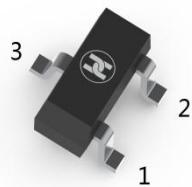
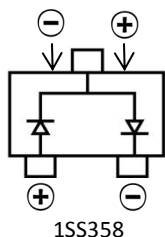


SCHOTTKY BARRIER DIODE**FEATURES**

- Low Forward Voltage
- High breakdown voltage
- Excellent detection efficiency
- Small interterminal capacitance
- Surface Mount device
- For VHF/UHF Detector and Mixer Applications

**SOT-23****MECHANICAL DATA**

- Case: SOT-23
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.013 grams (approximate)

MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

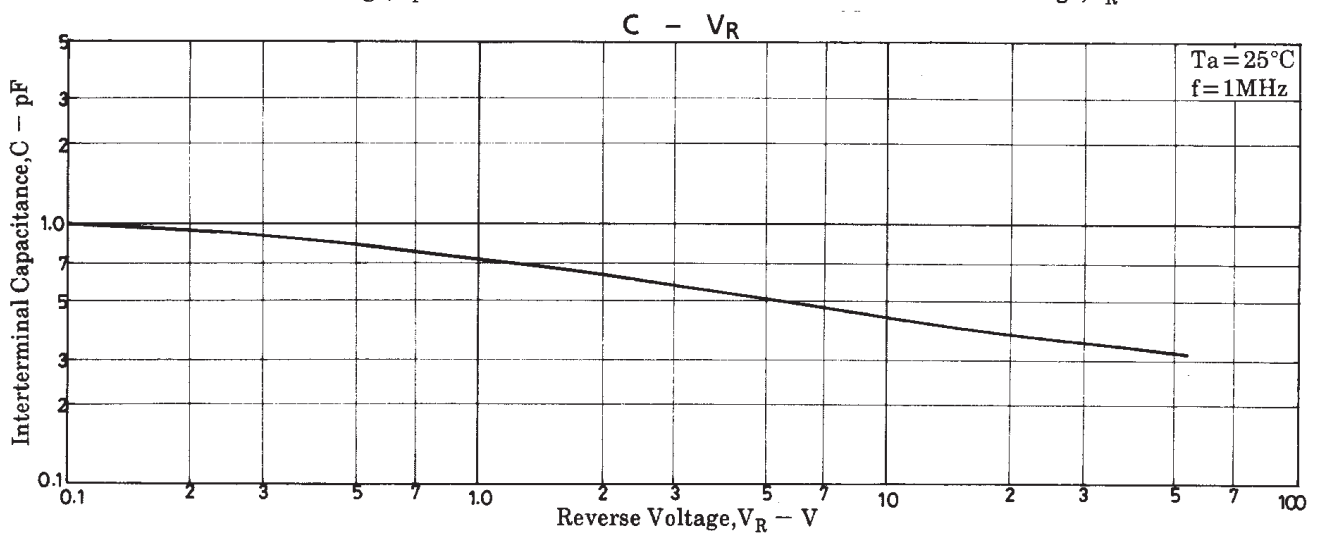
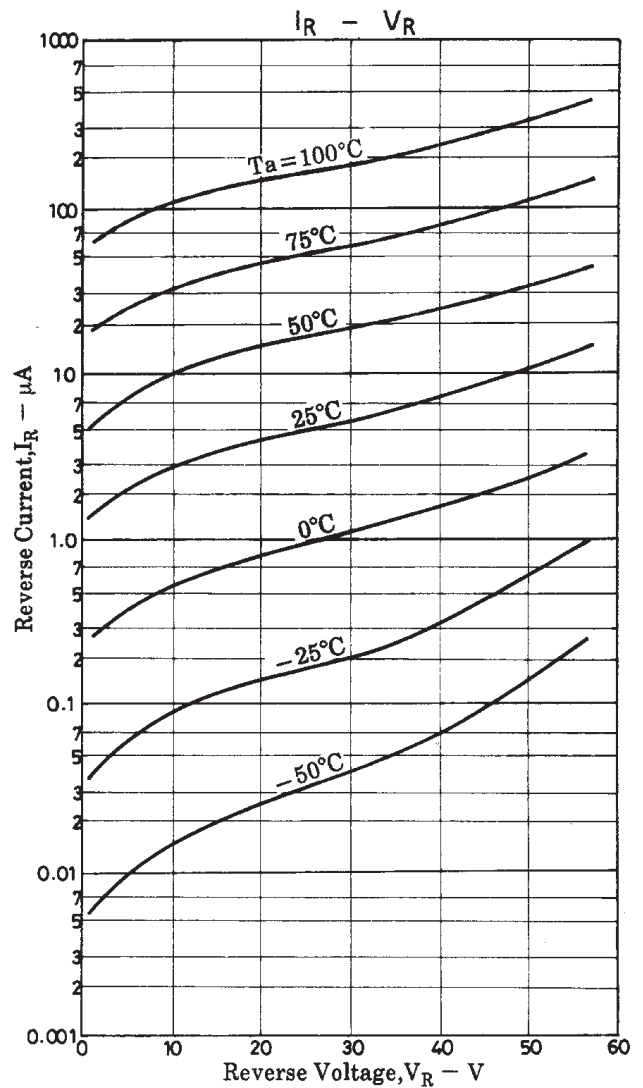
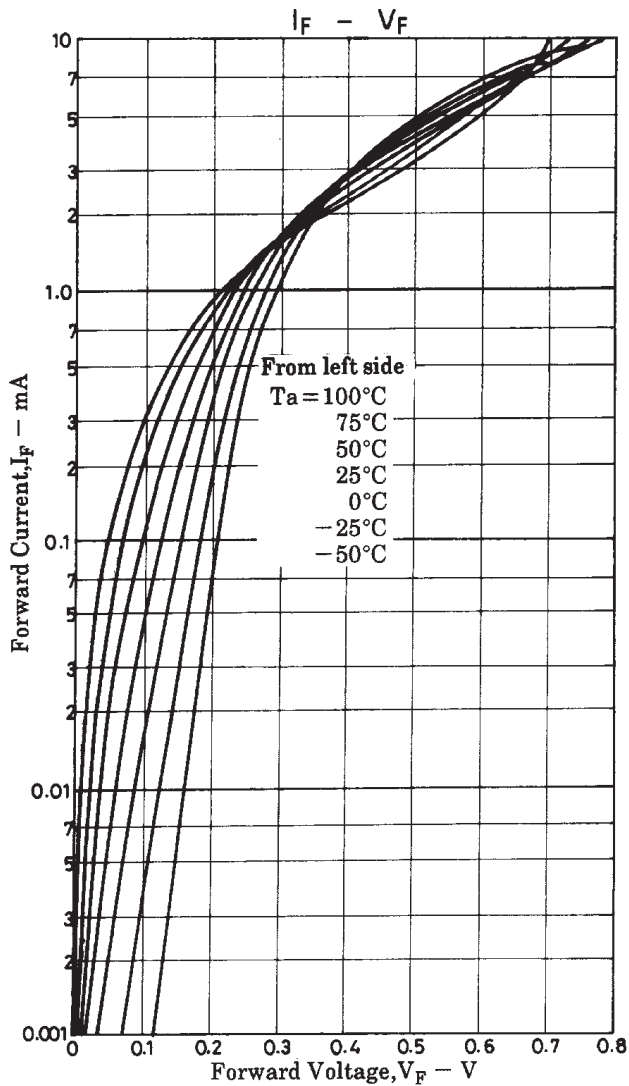
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _R	55	V
Forward Current	I _F	10	mA
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-55 ~+150	°C

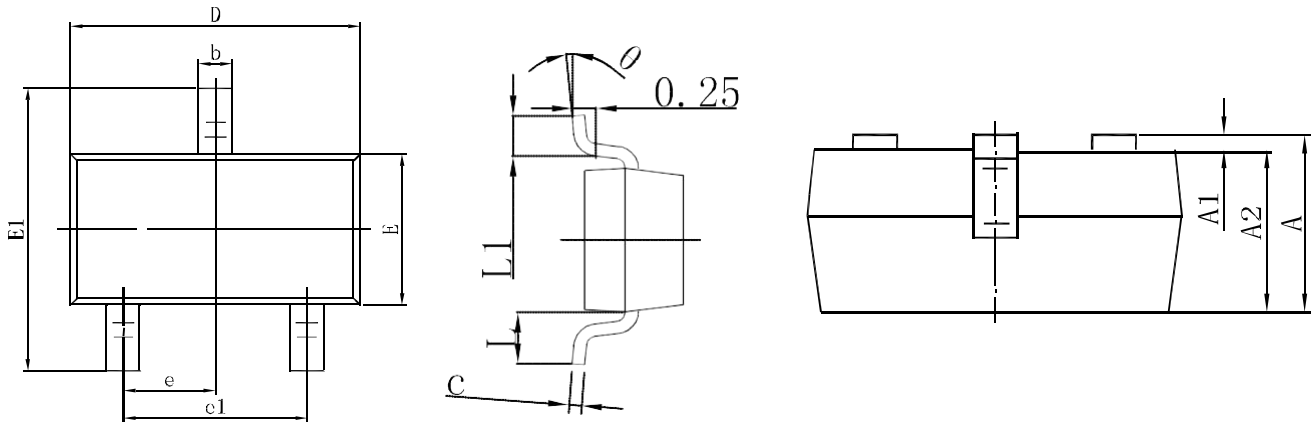
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	55			V	I _R =100uA
Reverse voltage leakage current	I _R			50	uA	V _R =40V
Forward voltage	V _F			0.35	V	I _F =1mA
Forward current	I _F	10			mA	V _F =1V
Inter-terminal capacitance	C		0.45		pF	V _R =10V, f=1.0MHZ

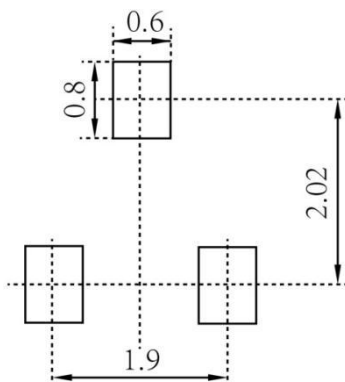
SCHOTTKY BARRIER DIODE

Typical Characteristics



SCHOTTKY BARRIER DIODE**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°

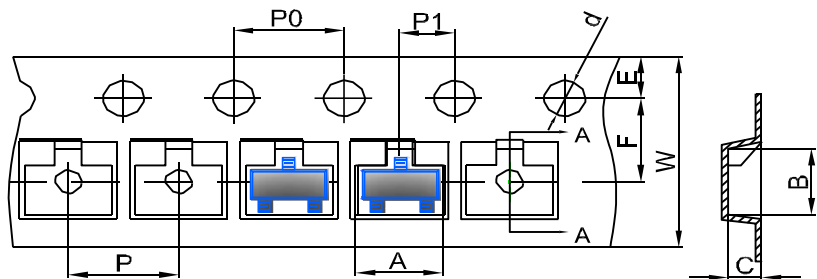
SOT-23 Suggested Pad Layout**Note:**

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

SCHOTTKY BARRIER DIODE

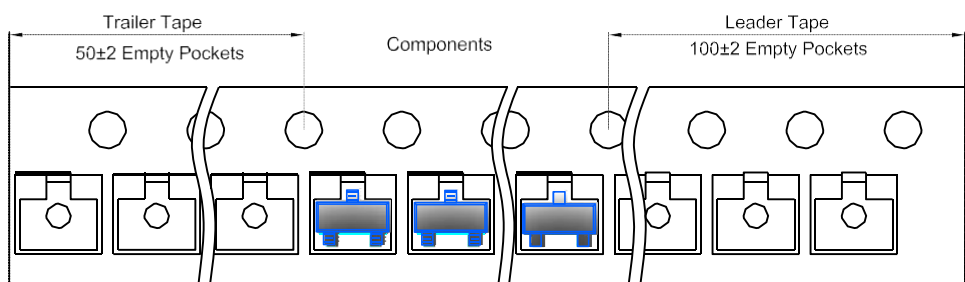
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

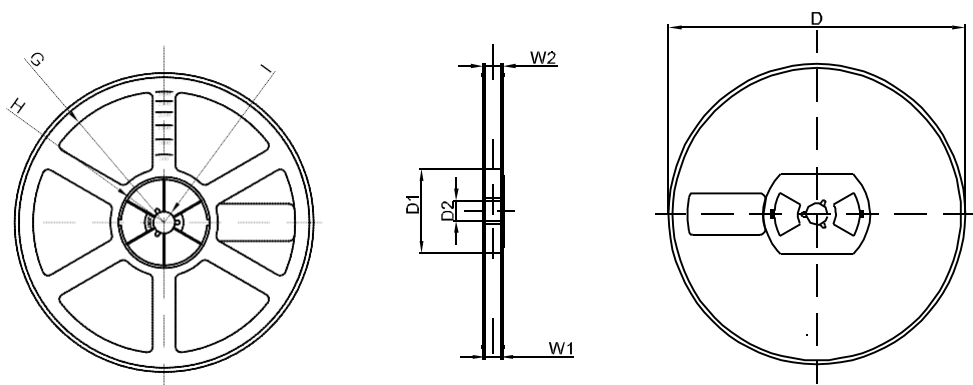


	DIMENSIONS ARE IN MILLIMETER									
TYPE	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

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	54.40	13.00	R78	R25.60	R6.50	9.50	12.30
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1