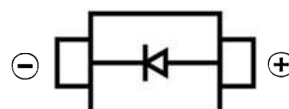


1A SCHOTTKY RECTIFIER**FEATURES**

- 1.5W power dissipation package
- 1.0A, forward voltage less than 550mV
- Surface mount device

**SMB****MECHANICAL DATA**

- Case: SMB(DO-214AA)
- Case material: Molded plastic, UL flammability
- Classification rating: 94V-0
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- Weight: 0.088 grams (approximate)

MAXIMUM RATINGS AND CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum repetitive reverse voltage	V_{RRM}	30	V
Average rectified forward current @ $T_L=120^{\circ}\text{C}$	$I_{F(AV)}$	1.0	A
Non-repetitive peak forward surge current (8.3ms, single half sine wave)	I_{FSM}	40	A
Storage temperature range	T_{STG}	$-65 \sim +150$	$^{\circ}\text{C}$
Operating junction temperature	T_J	$-65 \sim +125$	$^{\circ}\text{C}$
Thermal resistance junction lead	$R_{\theta JL}$	28	$^{\circ}\text{C/W}$

These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Max	Unit	Conditions
Forward voltage	V_F	550	mV	$I_F=1.0\text{A}$
Reverse leakage	I_R	0.5	mA	$V_R=30\text{V}$
		20	mA	$V_R=30\text{V}, T_A=100^{\circ}\text{C}$

1A SCHOTTKY RECTIFIER

TYPICAL CHARACTERISTICS

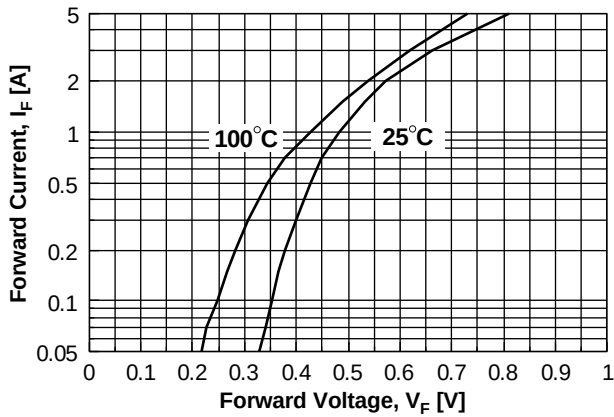


Figure 1. Forward Voltage Characteristics

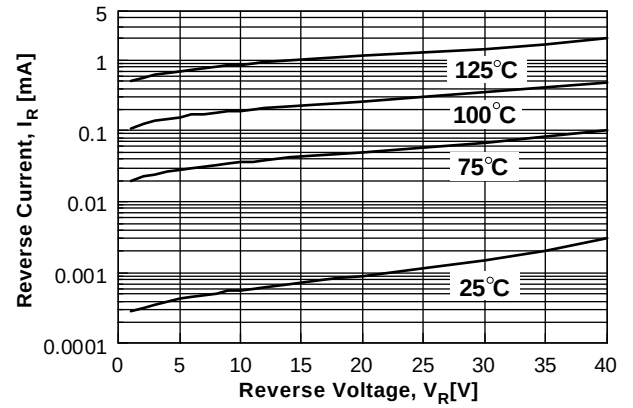


Figure 2. Reverse Current vs Reverse Voltage

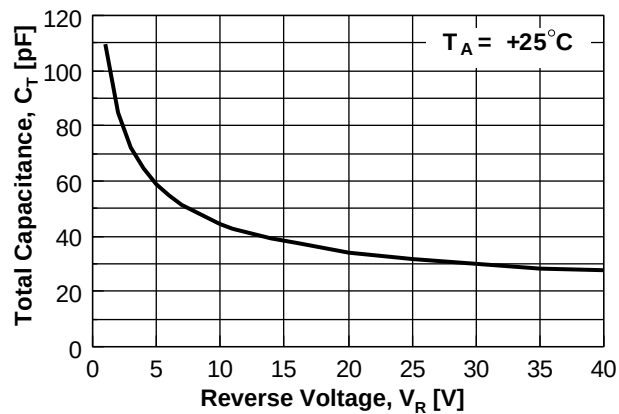
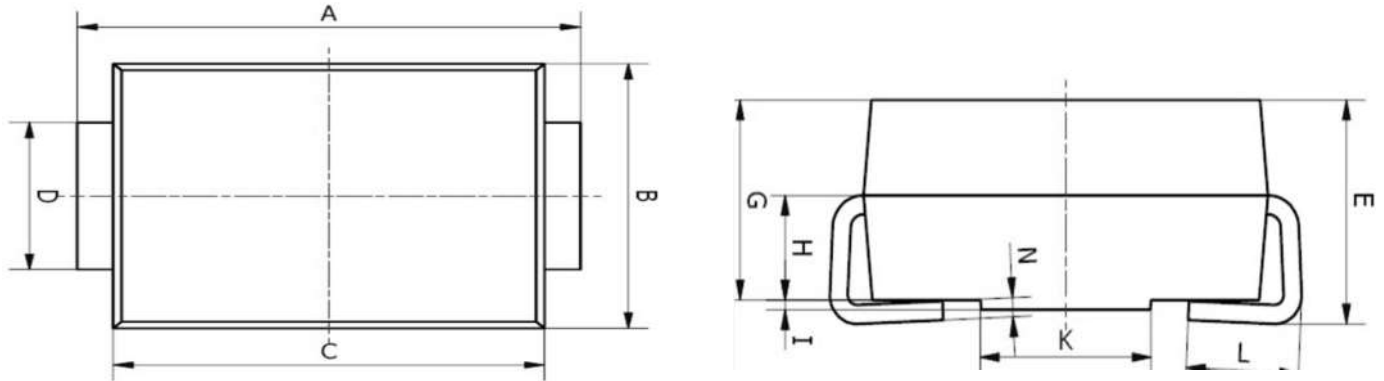
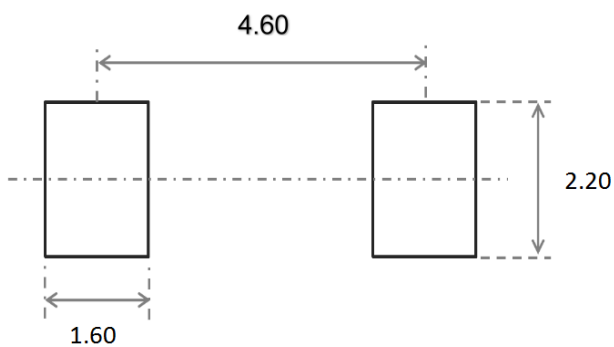


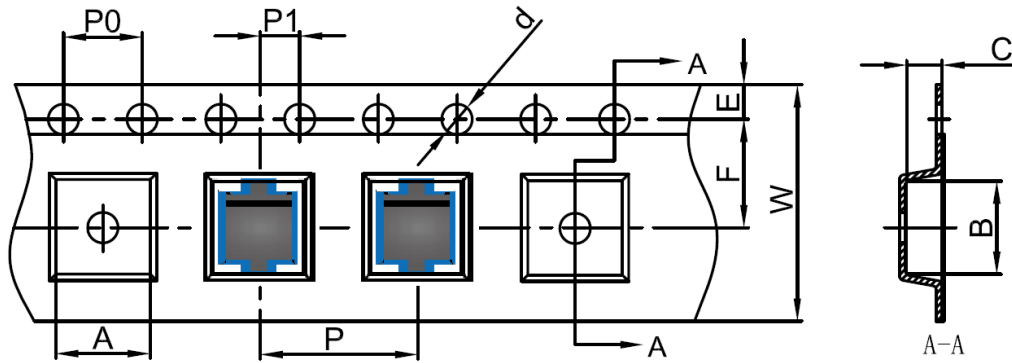
Figure 3. Total Capacitance

1A SCHOTTKY RECTIFIER
SMB PACKAGE OUTLINE DIMENSIONS


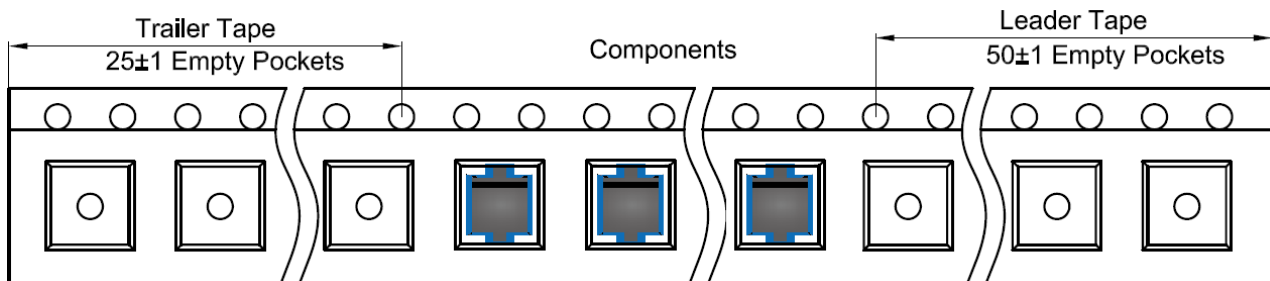
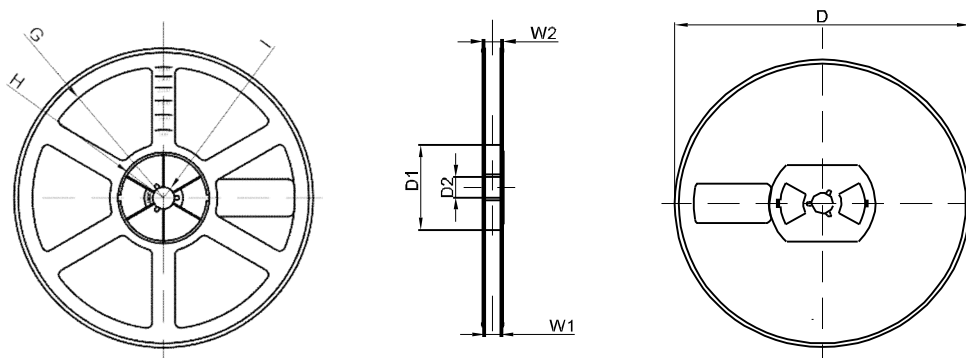
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	5.00	5.45	0.197	0.215
B	3.20	4.00	0.126	0.157
C	4.30	4.70	0.169	0.185
D	1.80	2.20	0.071	0.087
E	2.20	2.50	0.087	0.098
G	1.90	2.30	0.075	0.090
H	0.95	1.25	0.037	0.049
I	0.05	0.15	0.002	0.006
K	1.70	2.10	0.067	0.083
L	0.90	1.60	0.035	0.063
N	0.10	0.30	0.004	0.012

SMB 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

1A SCHOTTKY RECTIFIER
SMB TAPE AND REEL
SMB Embossed Carrier Tape


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SMB	4.10	5.50	2.58	Ø1.50	1.75	5.50	4.00	8.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SMB Tape Leader and Trailer

SMB Reel


DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
13" DIA	Ø330	75.0	13.00	R165	R37.50	R6.50	12.40	17.60
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1