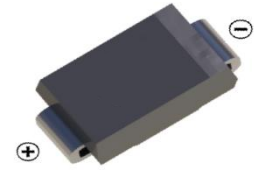


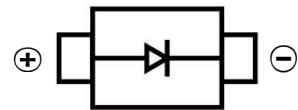
SCHOTTKY BARRIER DIODE

FEATURES

- Small Surface Mount device
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



SMA



MECHANICAL DATA

- Case: SMA(DO-214AC)
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.065 grams (approximate)

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

Parameter	Symbol	SS22A	SS24A	SS26A	SS28A	SS210A	SS212A	SS215A	SS220A	Unit
Repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
DC Reverse Voltage	V_R	20	40	60	80	100	120	150	200	V
RMS Reverse Voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Non-Repetitive Peak Forward Surge Current @ $t = 8.3 \text{ ms}$	I_{FSM}	50				40				A
Mean rectifying current	I_F	2.0								A
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	85								$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	125								$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~+150								$^{\circ}\text{C}$

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

Parameter	Symbol	SS22A	SS24A	SS26A	SS28A	SS210A	SS212A	SS215A	SS220A	Unit	Conditions
Forward voltage	V_F	0.55	0.70		0.85		0.95			V	$I_F=2\text{A}$
Reverse current $T=25^{\circ}\text{C}$	I_R	0.5			0.3					mA	$V=V_R$
Reverse current $T=100^{\circ}\text{C}$	I_R	10			5					mA	
Junction capacitance	C_J	220		80						pF	$V_R=4\text{V}, f=1\text{MH}$

SCHOTTKY BARRIER DIODE
Typical Characteristics

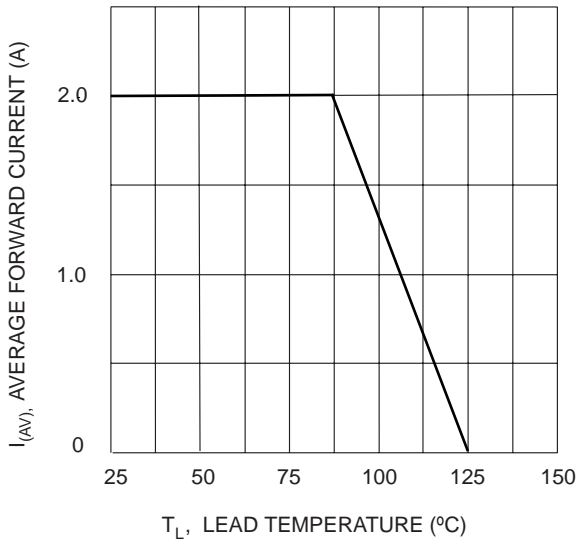


Fig. 1 Forward Current Derating Curve

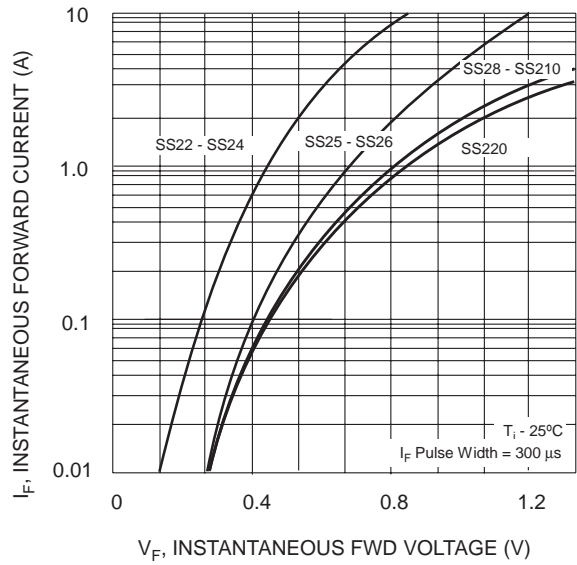


Fig. 2 Typ. Forward Characteristics

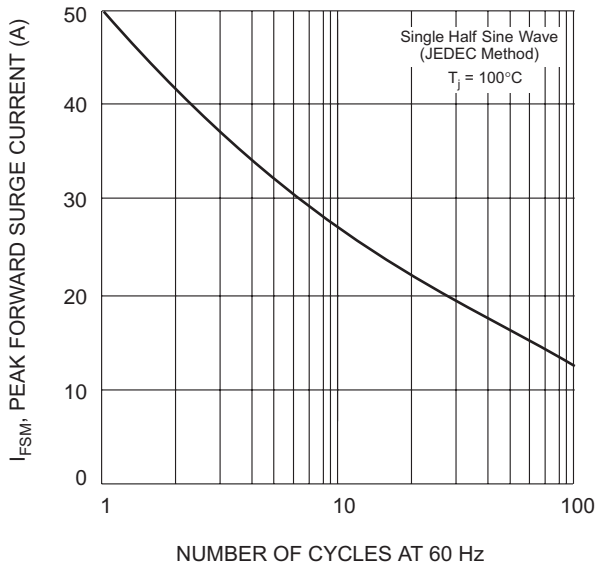


Fig. 3 Max Non Repetitive Peak Fwd Surge Current

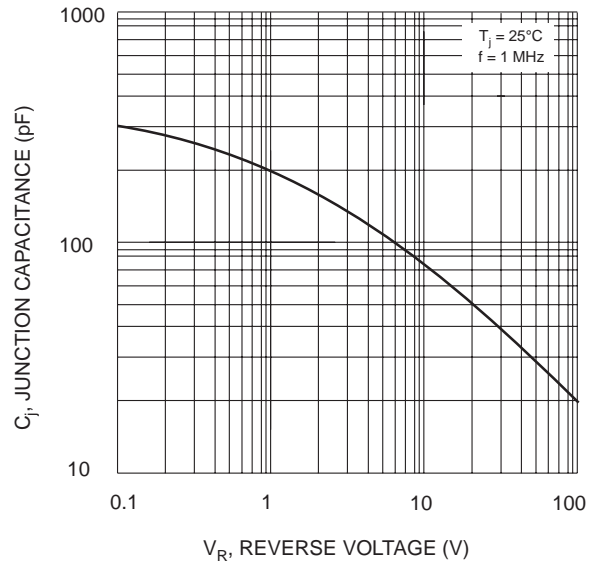


Fig. 4 Typical Junction Capacitance

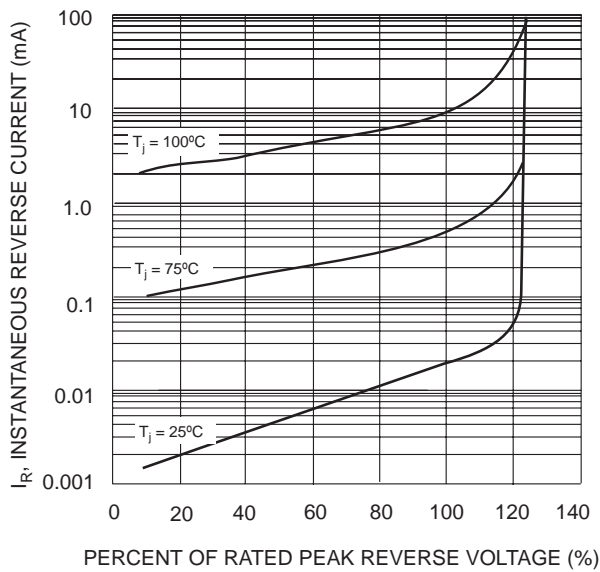
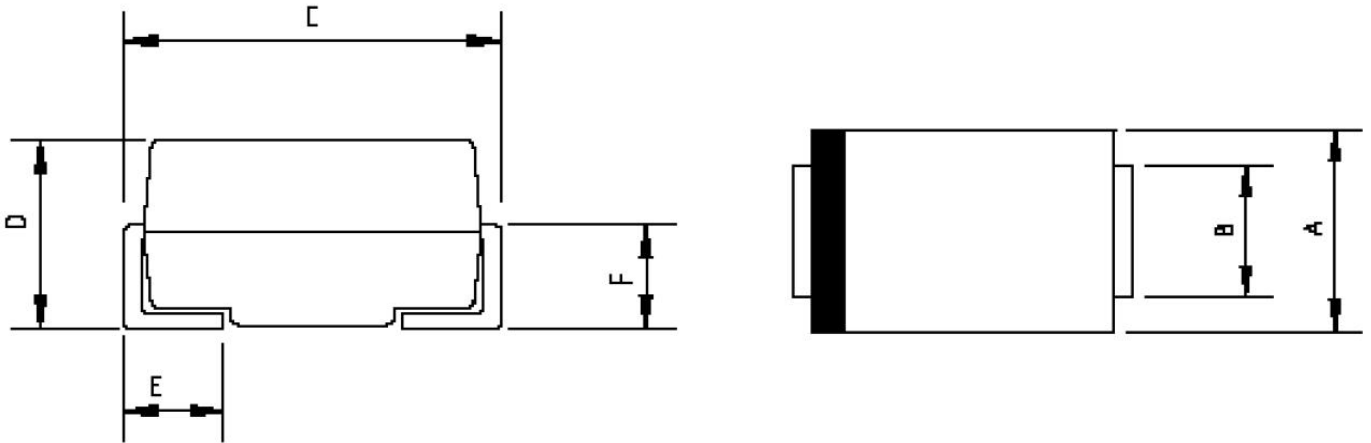


Fig. 5 Typical Reverse Characteristics

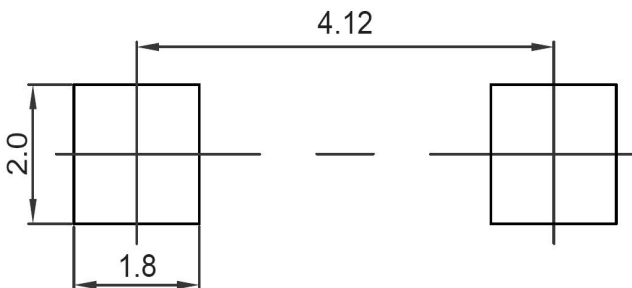
SCHOTTKY BARRIER DIODE

SMA Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.80	0.086	0.110
B	1.30	1.70	0.051	0.067
C	4.70	5.30	0.185	0.209
D	1.70	2.55	0.067	0.100
E	0.90	1.50	0.035	0.059
F	0.90	1.50	0.035	0.059

SMA Suggested Pad Layout



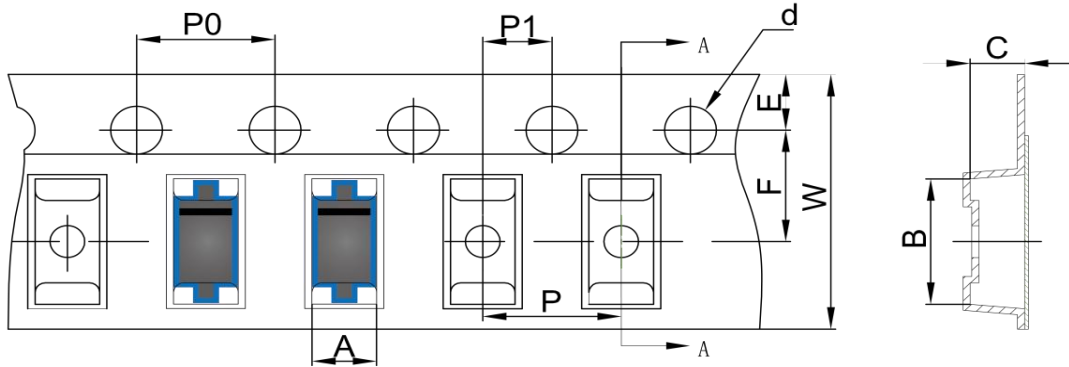
Note:

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

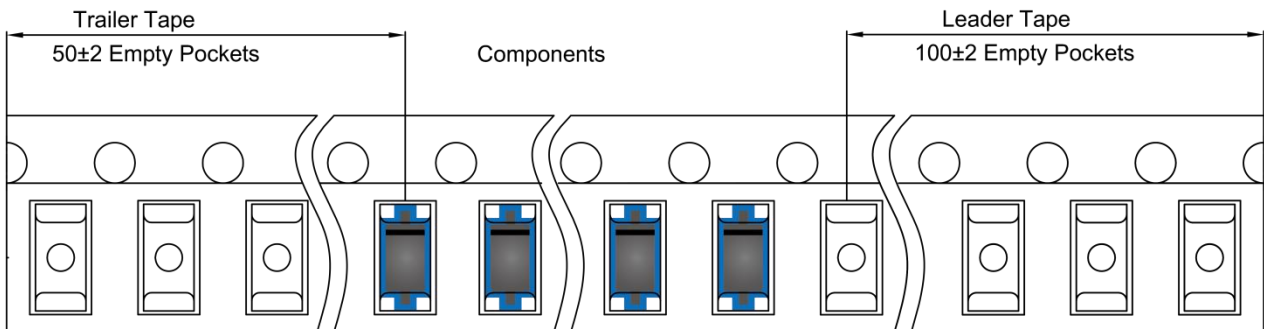
SMA Tape and Reel

SMA Embossed Carrier Tape

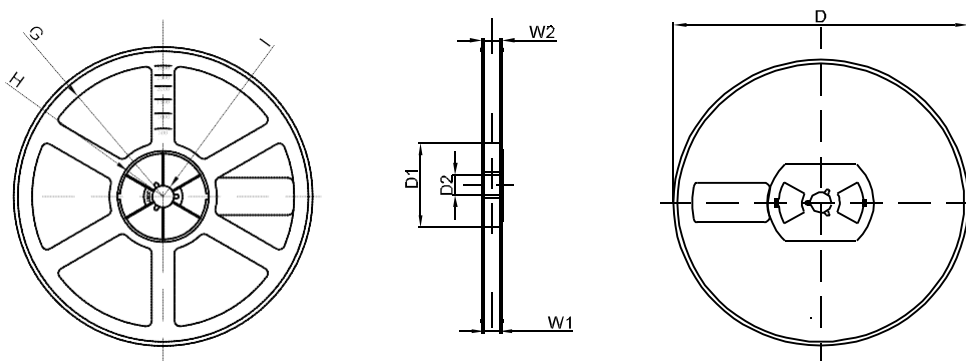


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SMA	2.89	5.35	2.68	Ø1.50	1.75	5.50	4.00	4.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SMA Tape Leader and Trailer



SMA 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	12.40	17.60
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1