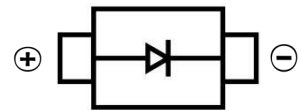


**SCHOTTKY BARRIER DIODE**
**FEATURES**

- 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(DO-214AC)


**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<sub>A</sub> = 25°C unless otherwise noted)**

Parameter	Symbol	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Unit
Repetitive peak reverse	V <sub>RRM</sub>	20	40	45	60	80	100	120	150	200	V
RMS Reverse Voltage	V <sub>RMS</sub>	14	28	31.5	42	56	70	84	105	140	V
DC Reverse Voltage	V <sub>R</sub>	20	40	45	60	80	100	120	150	200	V
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I <sub>FSM</sub>	80									A
Mean rectifying current	I <sub>F</sub>	3.0									A
Thermal Resistance From Junction To Ambient(2)	R <sub>θJA</sub>	70									°C/W
Junction Temperature	T <sub>J</sub>	-55 ~+125									°C
Storage Temperature	T <sub>STG</sub>	-55 ~+150									°C

**ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)**

Parameter	Symbol	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Unit	Conditions
Forward voltage	V <sub>F</sub>	0.55	0.70			0.85		0.95			V	I <sub>F</sub> =3A
Reverse current T=25°C	I <sub>R</sub>	0.5			0.3						mA	V=V <sub>R</sub>
Reverse current T=100°C	I <sub>R</sub>	5			3						mA	
Junction capacitance(1)	C <sub>J</sub>	450			400						pF	V <sub>R</sub> =4V,f=1MHZ

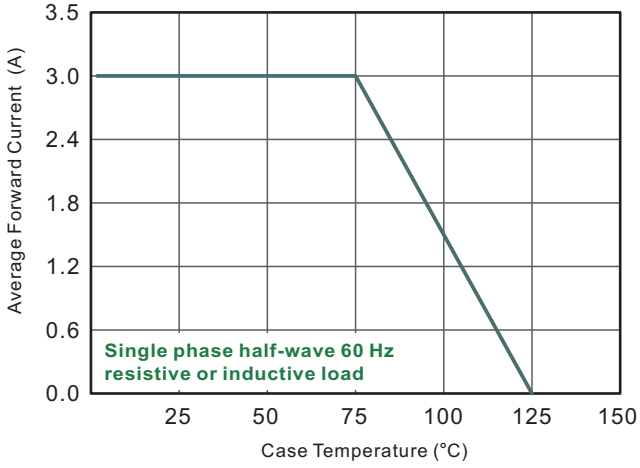
**NOTE:**

- (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

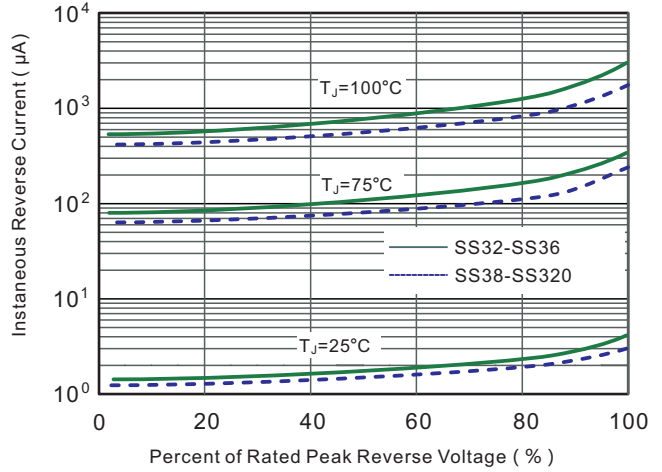
**SCHOTTKY BARRIER DIODE**

**Typical Characteristics**

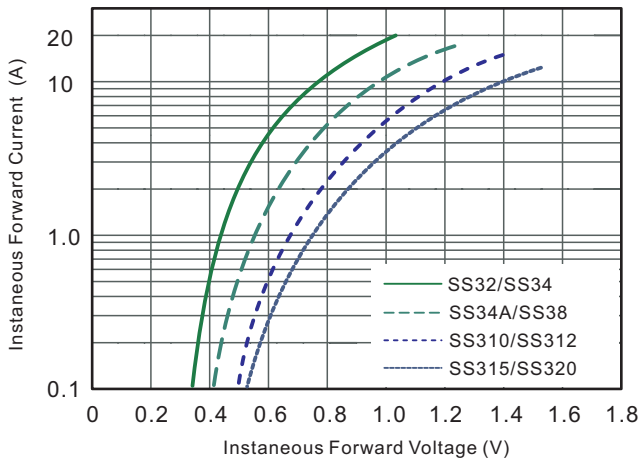
**Fig.1 Forward Current Derating Curve**



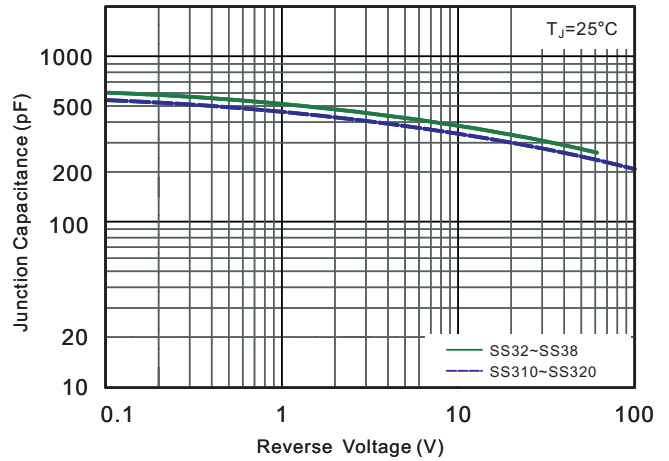
**Fig.2 Typical Reverse Characteristics**



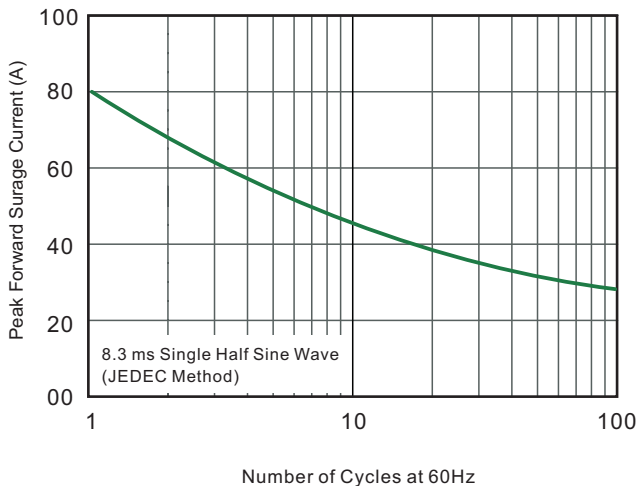
**Fig.3 Typical Forward Characteristic**



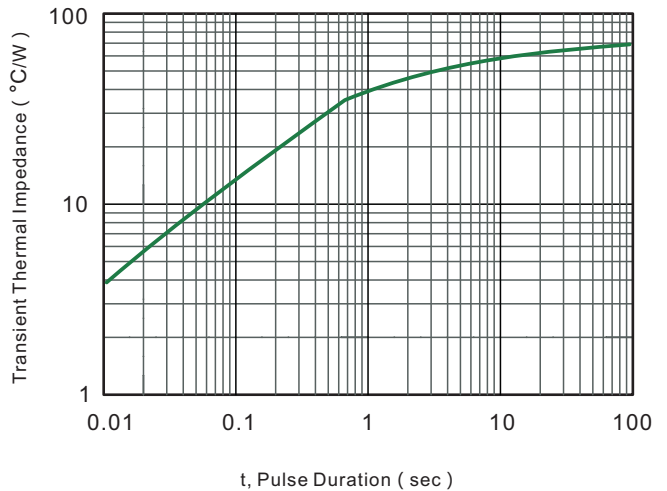
**Fig.4 Typical Junction Capacitance**

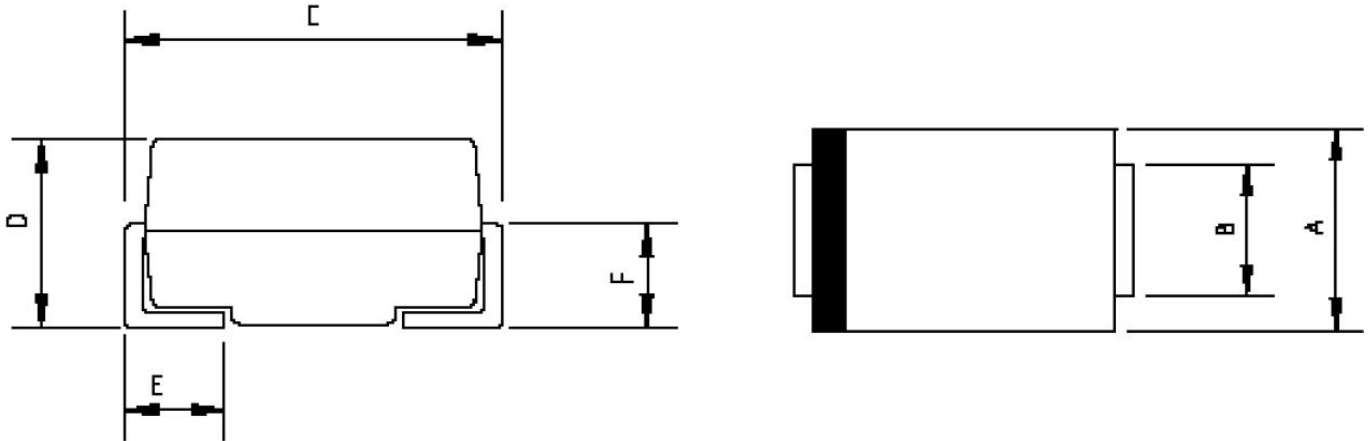


**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

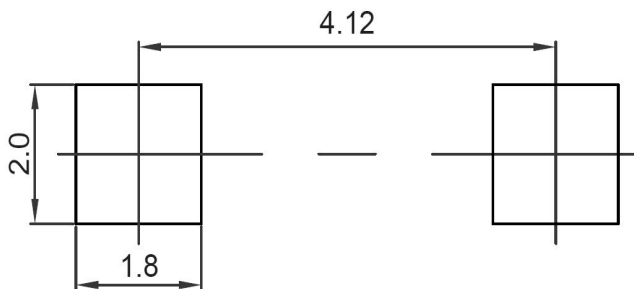


**Fig.5 Typical Transient Thermal Impedance**

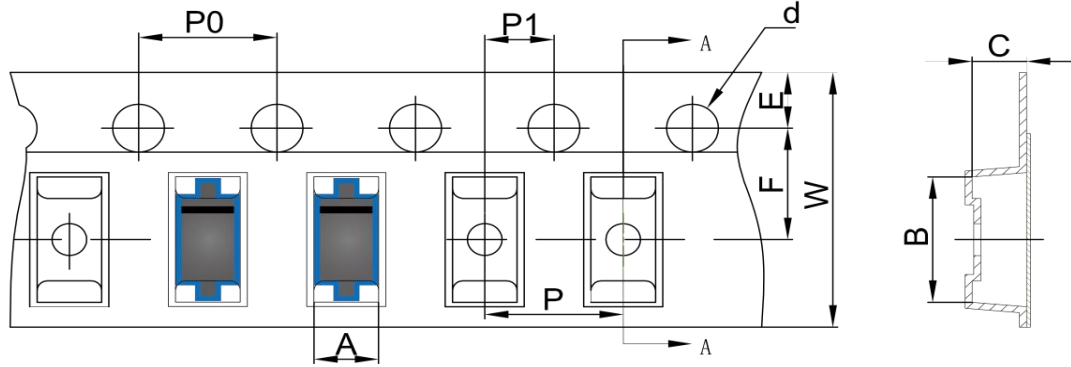


**SCHOTTKY BARRIER DIODE**
**SMA Package Outline Dimensions**


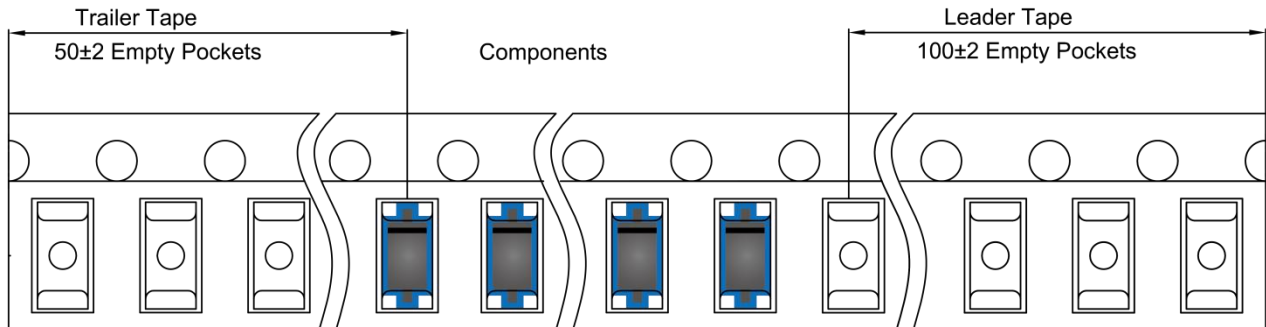
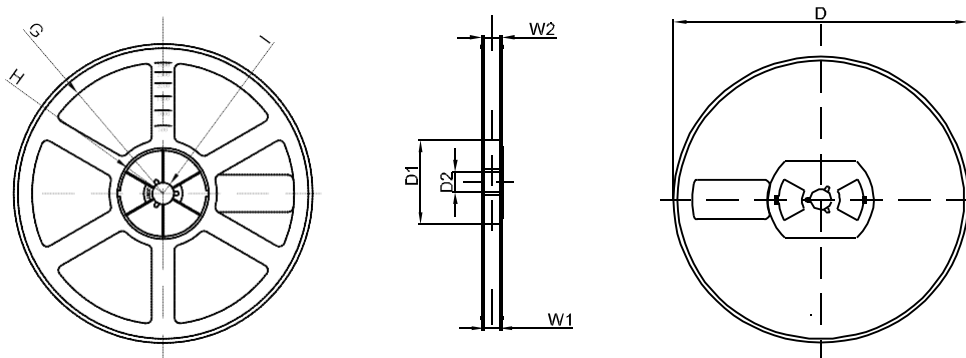
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.80	0.086	0.110
B	1.30	1.70	0.051	0.067
C	4.70	5.30	0.185	0.209
D	1.70	2.55	0.067	0.100
E	0.90	1.50	0.035	0.059
F	0.90	1.50	0.035	0.059

**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

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