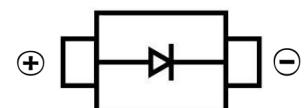


SCHOTTKY BARRIER DIODE
FEATURES

- 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($T_A = 25^\circ\text{C}$ unless otherwise noted)

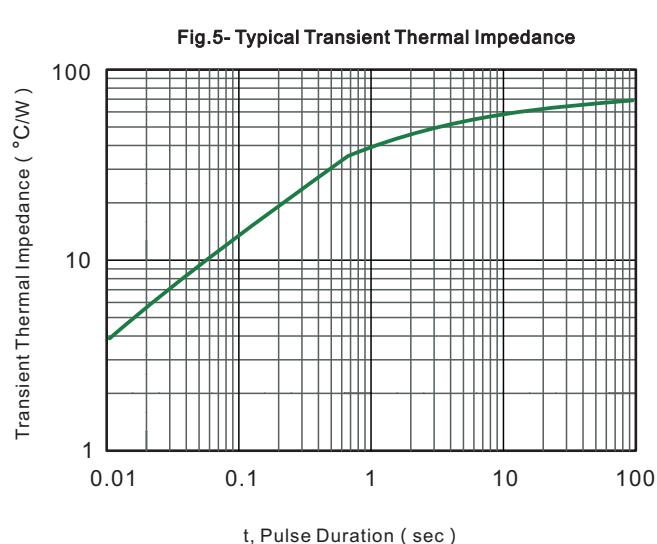
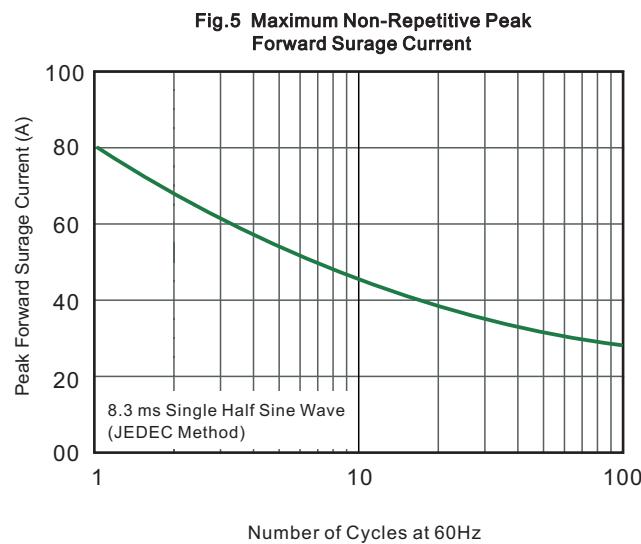
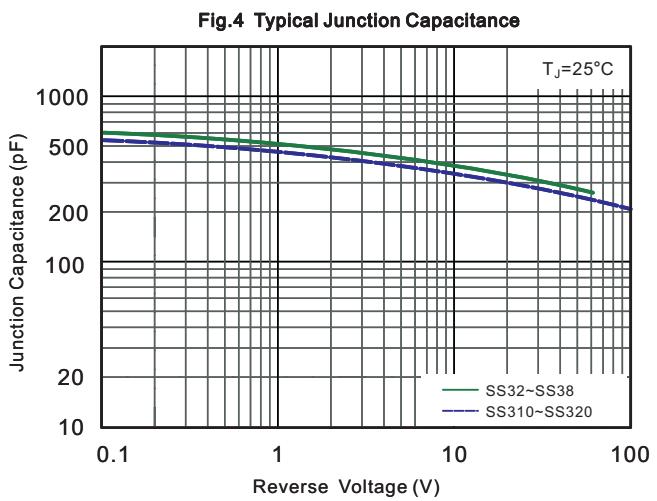
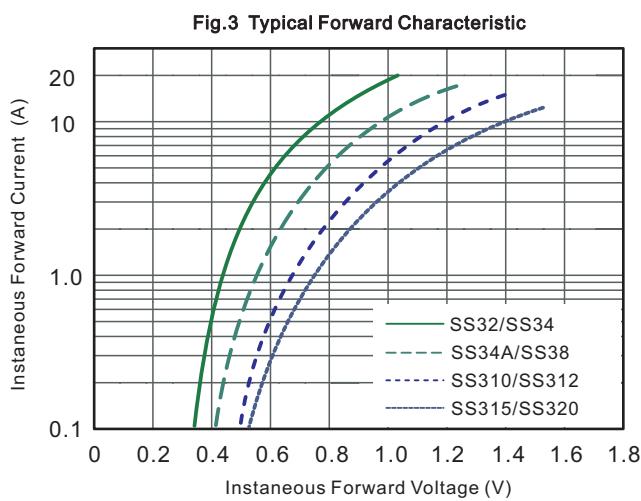
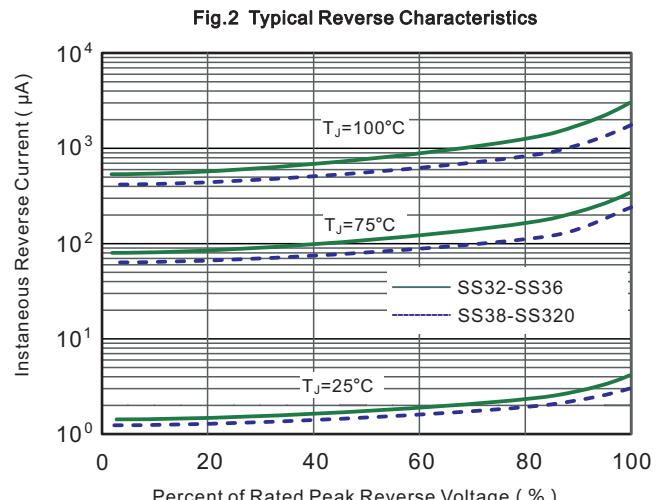
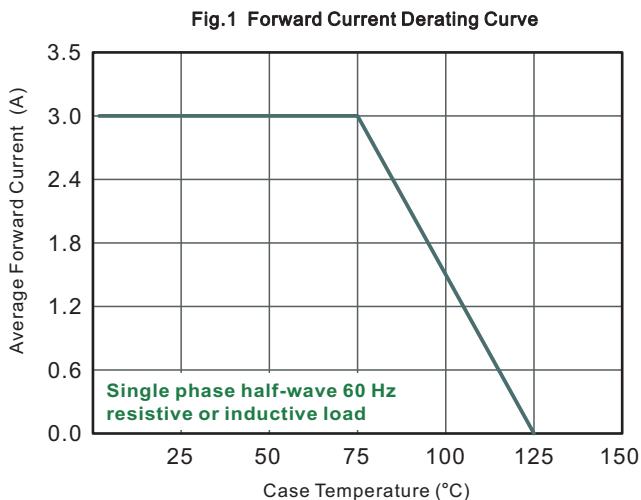
Parameter	Symbol	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Unit
Repetitive peak reverse	V_{RRM}	20	40	45	60	80	100	120	150	200	V
RMS Reverse Voltage	V_{RMS}	14	28	31.5	42	56	70	84	105	140	V
DC Reverse Voltage	V_R	20	40	45	60	80	100	120	150	200	V
Non-Repetitive Peak Forward Surge Current @ $t = 8.3 \text{ ms}$	I_{FSM}						80				A
Mean rectifying current	I_F						3.0				A
Thermal Resistance From Junction To Ambient(2)	$R_{\theta JA}$						70				$^\circ\text{C/W}$
Junction Temperature	T_J						-55 ~+125				$^\circ\text{C}$
Storage Temperature	T_{STG}						-55 ~+150				$^\circ\text{C}$

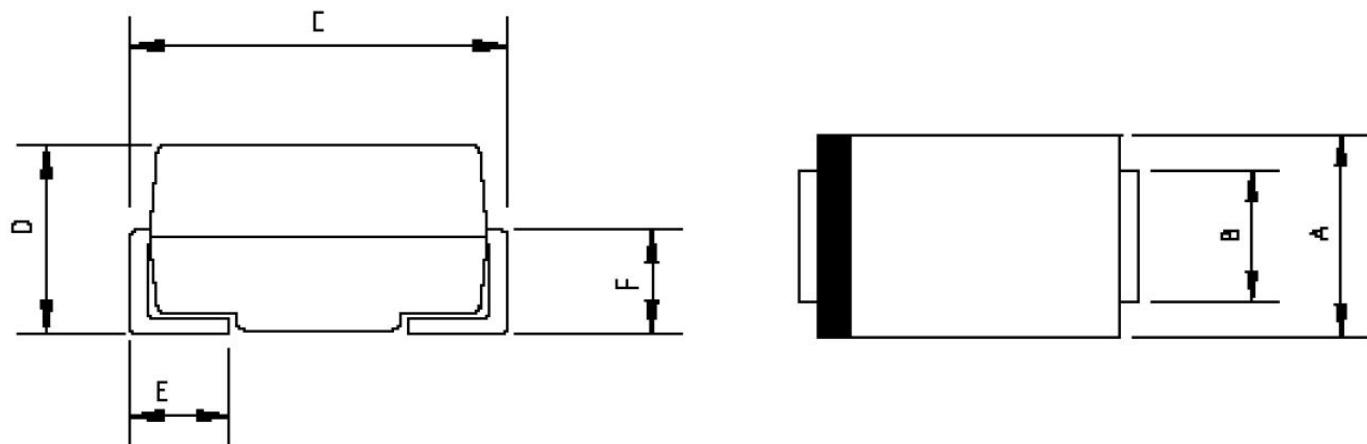
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Unit	Conditions
Forward voltage	V_F	0.55		0.70		0.85		0.95		V		$I_F=3\text{A}$
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		5			3				mA		
Junction capacitance(1)	C_J		450			400				pF	$V_R=4\text{V}, f=1\text{MHz}$	

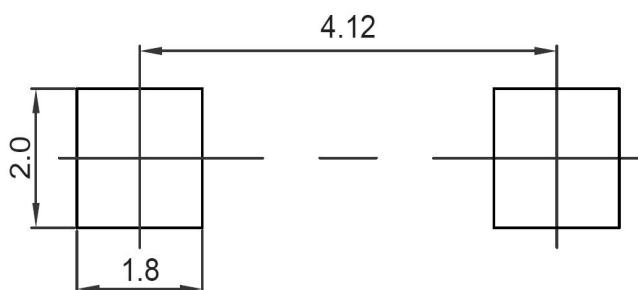
NOTE:

- (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.

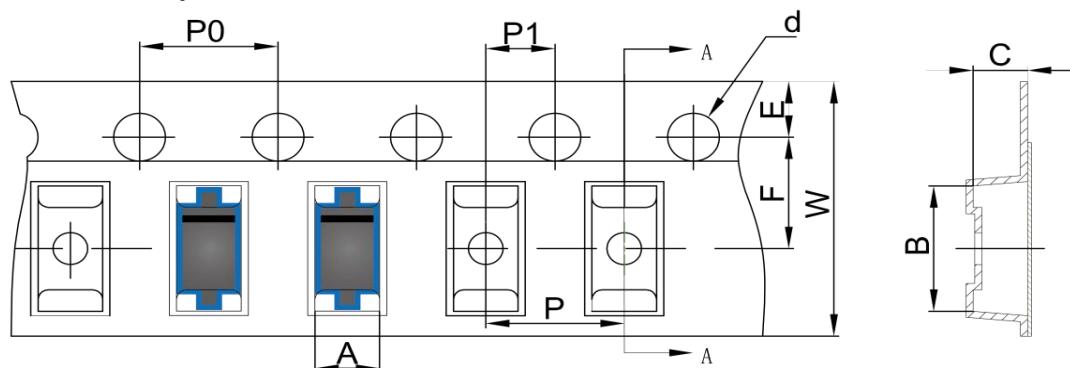
SCHOTTKY BARRIER DIODE
Typical Characteristics


SCHOTTKY BARRIER DIODE
SMA Package Outline Dimensions


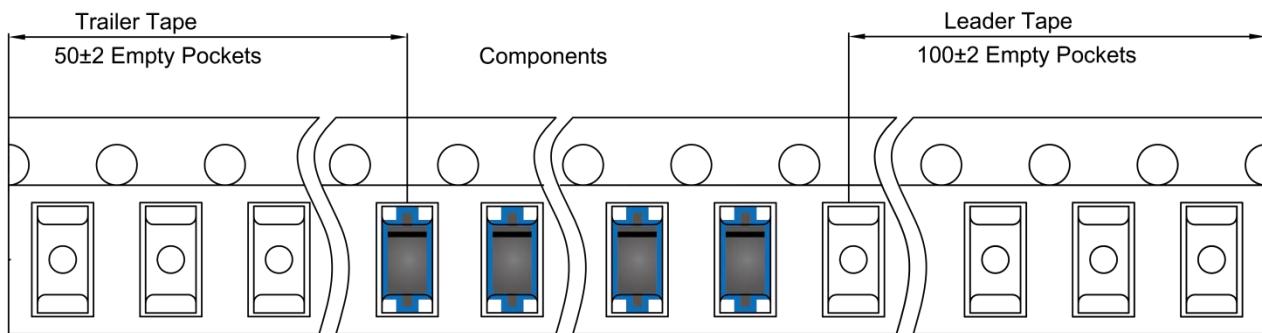
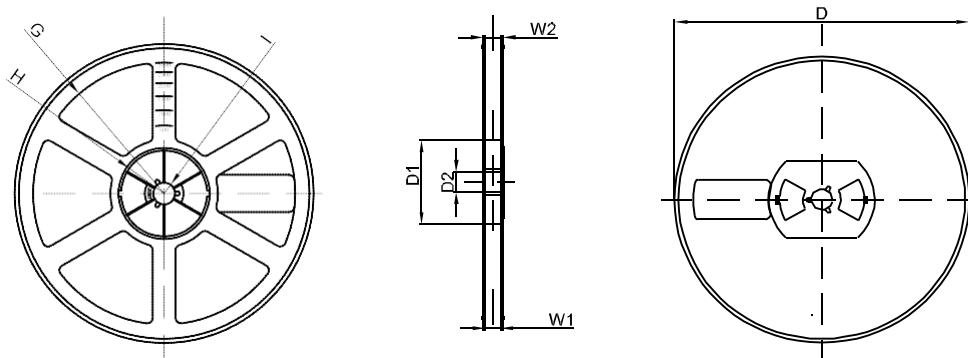
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.80	0.086	0.110
B	1.30	1.70	0.051	0.067
C	4.70	5.30	0.185	0.209
D	1.70	2.55	0.067	0.100
E	0.90	1.50	0.035	0.059
F	0.90	1.50	0.035	0.059

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