

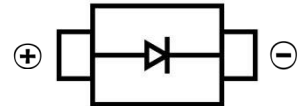
SCHOTTKY BARRIER DIODE

FEATURES

- Small Surface Mount device
- Built-in strain relief
- Super low forward voltage drop



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	SK32L	SK32LL	SK34L	SK34LL	Unit
Repetitive peak reverse voltage	V_{RRM}	20	20	40	40	V
DC Reverse Voltage	V_R	20	20	40	40	V
RMS Reverse Voltage	V_{RMS}	14	14	28	28	V
Non-Repetitive Peak Forward Surge Current @ $t = 8.3 \text{ ms}$	I_{FSM}	90				A
Mean rectifying current	I_F	3.0				A
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	25				$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	-25 ~+100				$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~+150				$^\circ\text{C}$

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

Parameter	Symbol	SK32L	SK32LL	SK34L	SK34LL	Unit	Conditions
Forward voltage	V_F	0.42	0.38	0.45	0.40	V	$I_F=3\text{A}$
Reverse current $T=25^\circ\text{C}$	I_R	1.5				mA	$V=V_R$
Reverse current $T=80^\circ\text{C}$	I_R	60				mA	
Junction capacitance	C_J	180				pF	$V_R=4\text{V}, f=1\text{MH}$

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RATING AND CHARACTERISTIC CURVES (SK32L THRU SK34LL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

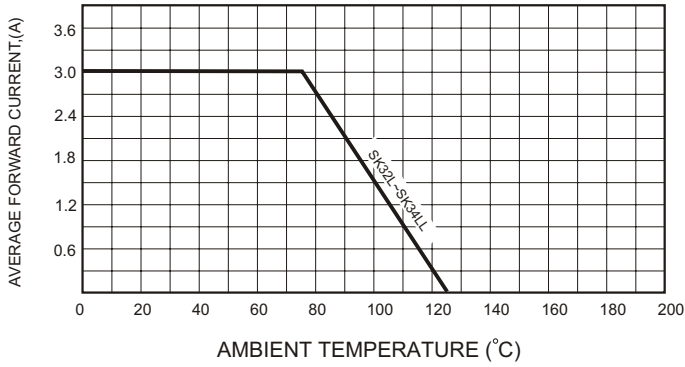


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

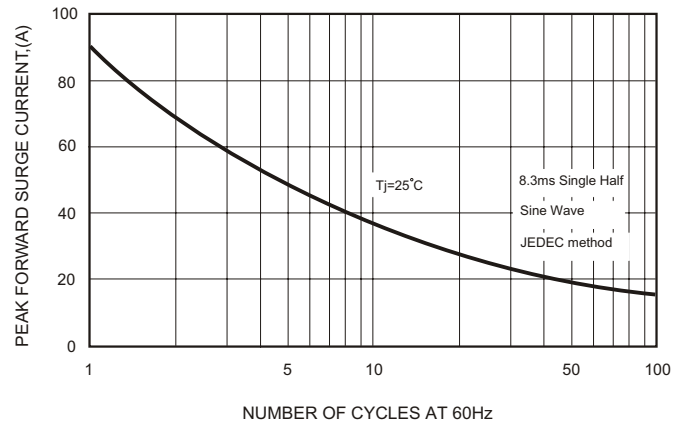


FIG.3-TYPICAL JUNCTION CAPACITANCE

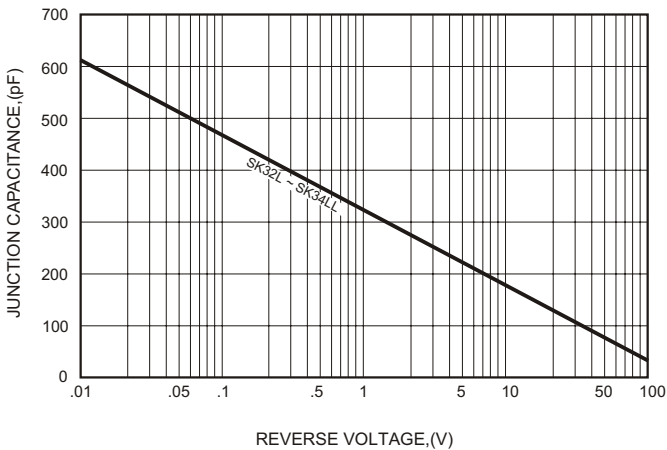
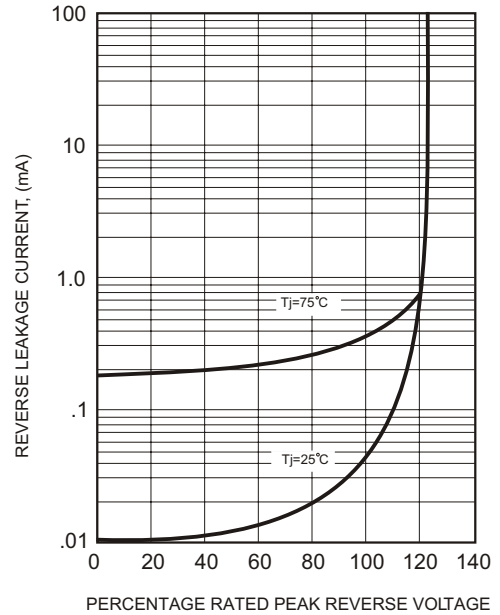


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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FIG. 5 (For SK32L)

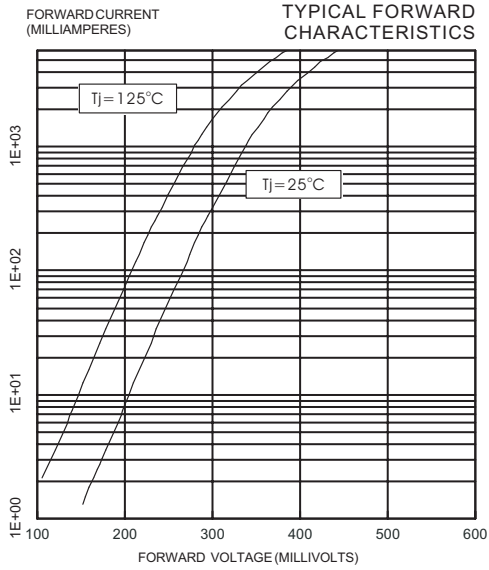


FIG. 6 (For SK32LL)

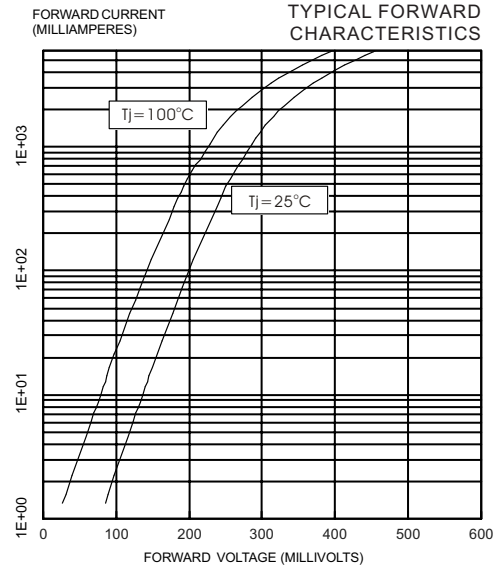


FIG. 7 (For SK34L)

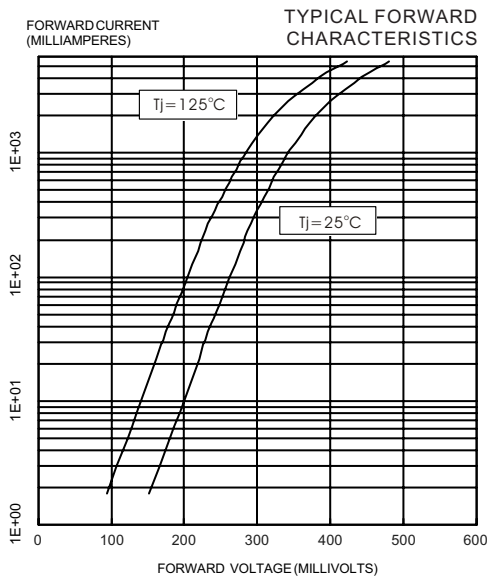
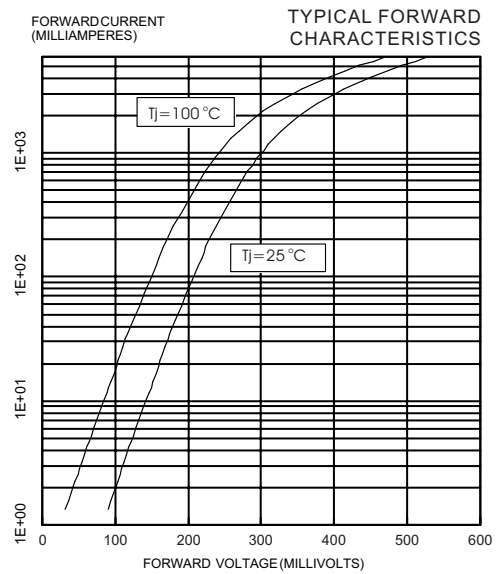
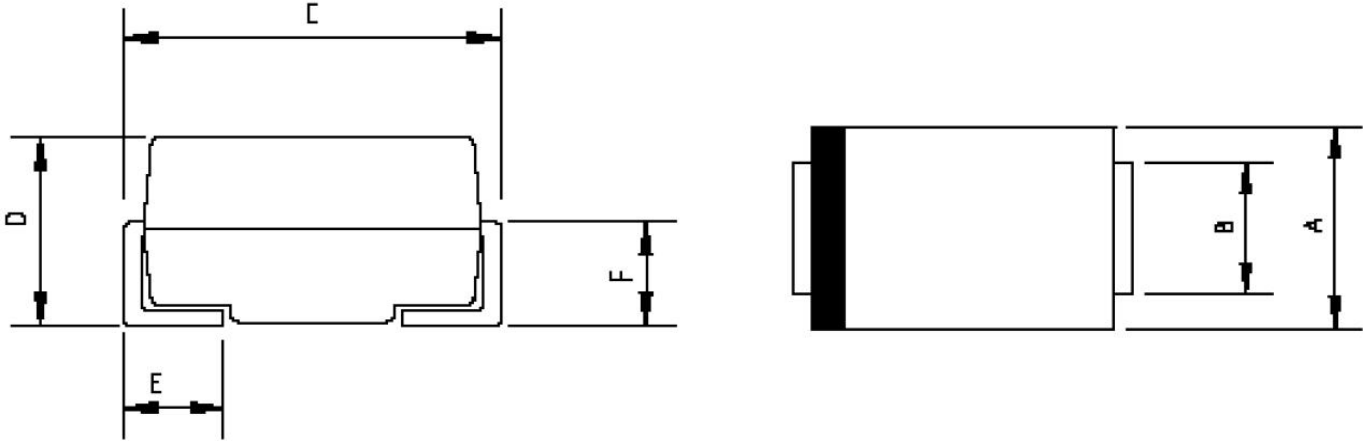


FIG. 8 (For SK34LL)



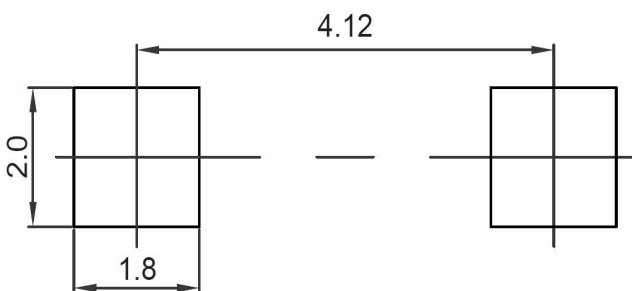
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SMA Package Outline Dimensions



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



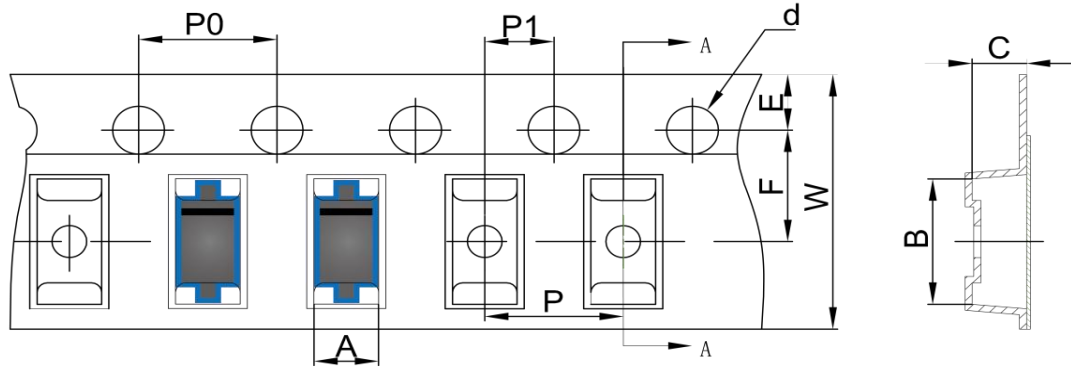
Note:

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

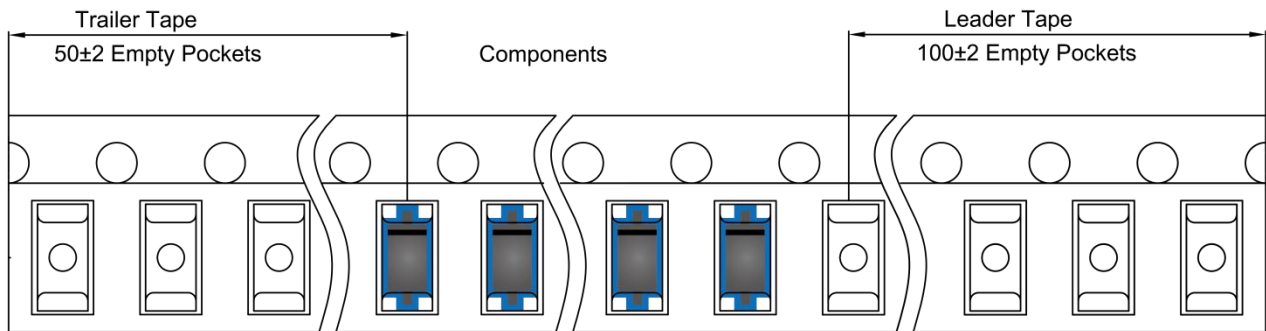
SMA Tape and Reel

SMA Embossed Carrier Tape

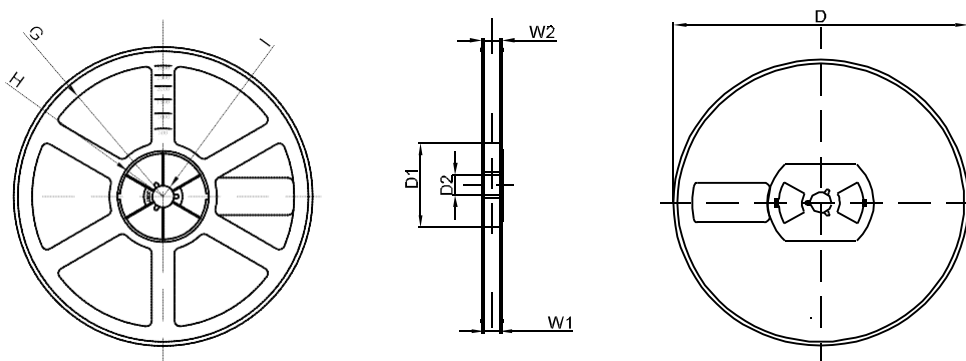


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SMA	2.89	5.35	2.68	Ø1.50	1.75	5.50	4.00	4.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

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