

DATA SHEET

SS32A SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20~100 Volts **CURRENT** 3.0 Ampere

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- EXTREMELY LOW V_F
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING: 260°C/10 SECONDS AT TERMINALS
- LEAD FREE AND FALOGEN-FREE

MECHANICAL DATA

- CASE: MOLDED PLASTIC
- TERMINALS: SOLDER PLATED
- POLARITY: INDICATED BY CATHODE BAND
- WEIGHT: 0.064GRAMS



CASE: DO-214AC(SMA)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	20	30	40	50	60	80	90	100	V
MAXIMUM RMS VOLTAGE	V_{RMS}	14	21	28	35	42	56	63	70	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	20	30	40	50	60	80	90	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT	I_O	3.0								A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	80								A
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO + 150								°C
OPERATING TEMPERATURE RANGE	T_J	-55 TO + 150								°C
TYPICAL THERMAL RESISTANCE (NOTE.1)	$R_{\theta JA}$	55								°C/W
TYPICAL THERMAL RESISTANCE (NOTE.1)	$R_{\theta JL}$	17								°C/W

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER		SYMBOL	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	UNITS
MAXIMUM FORWARD VOLTAGE AT 3A (NOTE.2)		V _F	0.55			0.75		0.85			V
MAXIMUM DC REVERSE CURRENT	25°C	I _R	0.5								mA
	100°C		20								

NOTES:

1. P.C.B. MOUNTED 5.0mm² “(14×14 mm) 0.13mm THICK COPPER PAD AREAS
2. PULSE TEST WITH PW= 300uS, 2% DUTY CYCLE

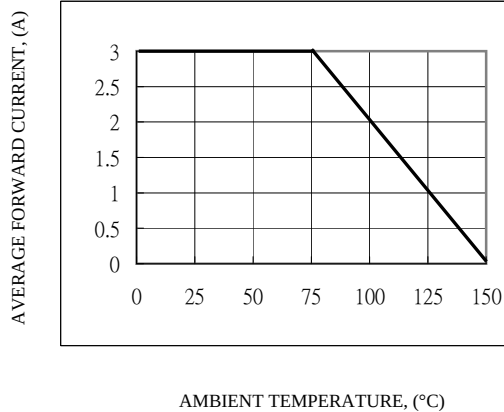


Fig.1-FORWARD CURRENT DERATING CURVE

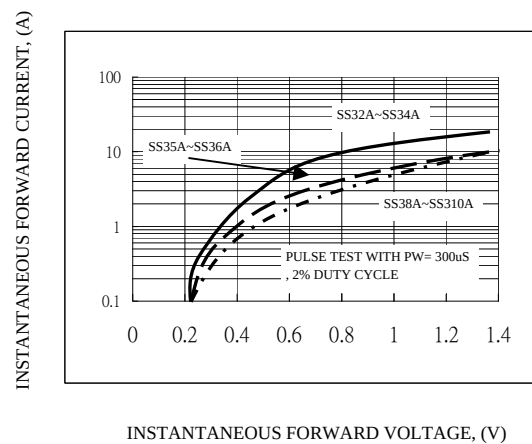


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

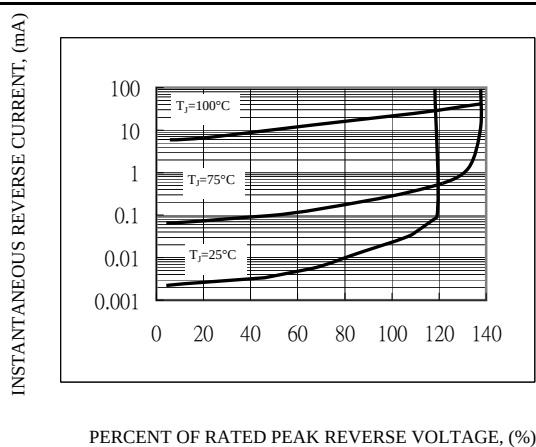


Fig.3A-TYPICAL REVERSE CHARACTERISTICS

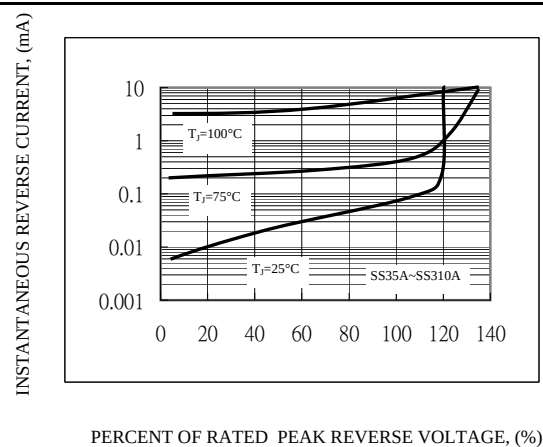


Fig.3B-TYPICAL REVERSE CHARACTERISTICS

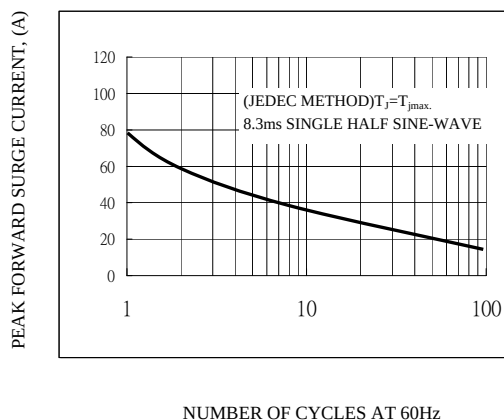
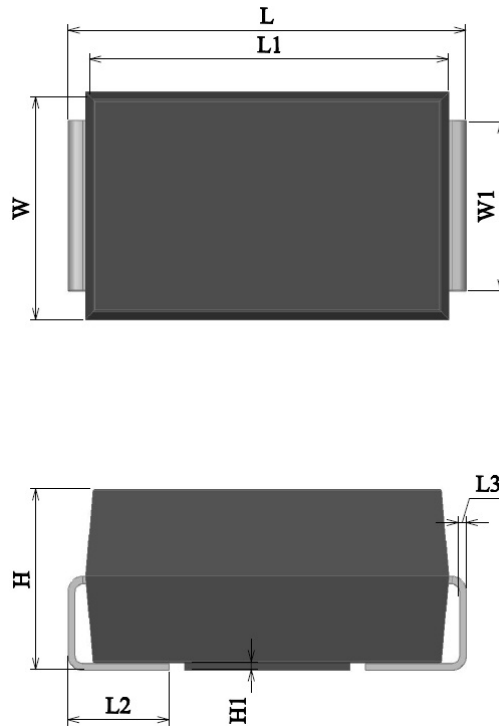


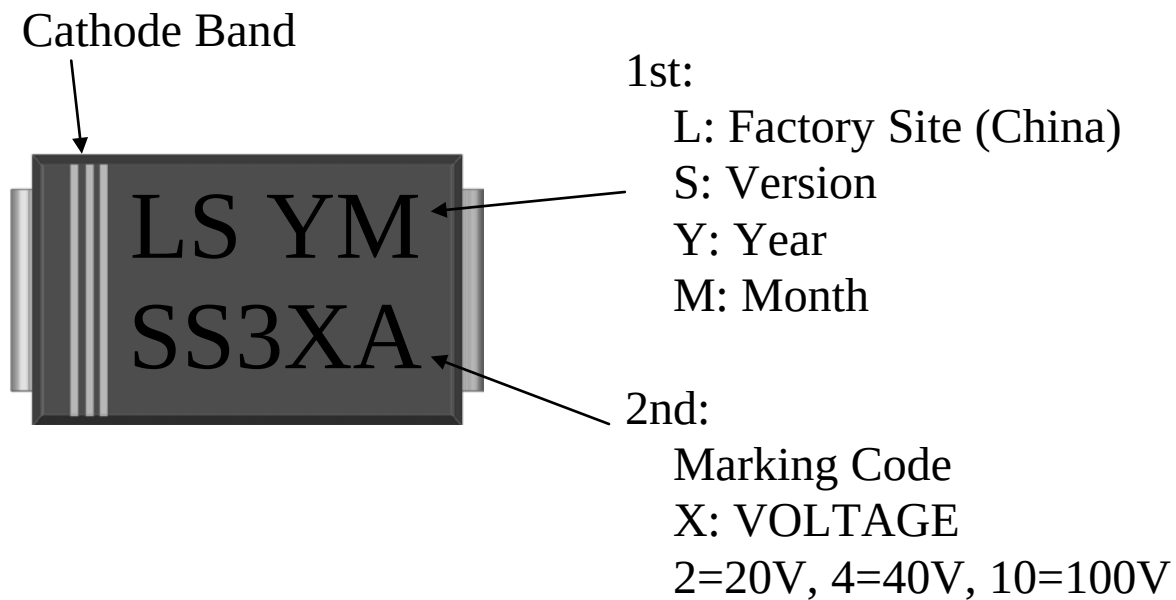
Fig.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

SMA(DO-214AC) DIMENSION



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
L	4.09	5.28	0.161	0.208
L1	3.99	4.50	0.157	0.177
L2	0.76	1.52	0.030	0.060
L3	0.152	0.305	0.006	0.012
W	2.54	2.79	0.100	0.110
W1	1.25	1.65	0.049	0.065
H	1.98	2.29	0.078	0.090
H1	-	0.127	-	0.005

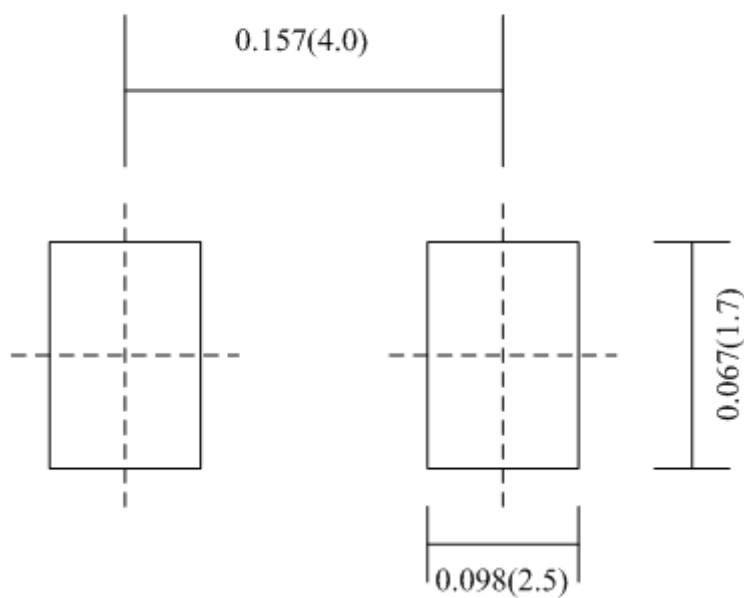
MARKING



PAD LAYOUT

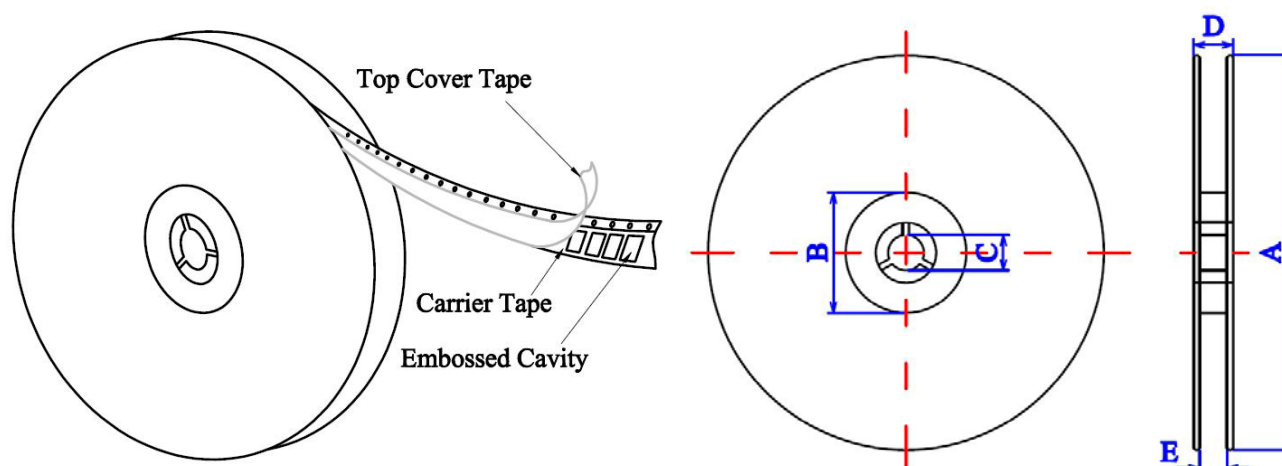
SMA/DO-214AC

Unit: inch(mm)



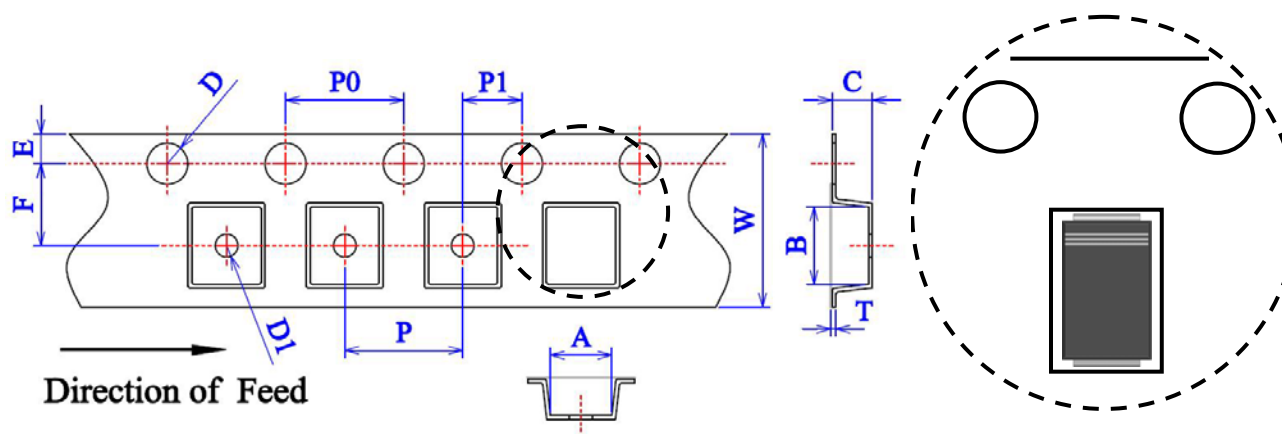
SMA(DO-214AC) TAPING

Reel Dimension (Unit: mm)



A	B	C	D	E
178±2 / 330±2	50(min)	13.5±1	18.4±0.1	14.4±0.1

Carrier Tape Dimension (Unit: mm)

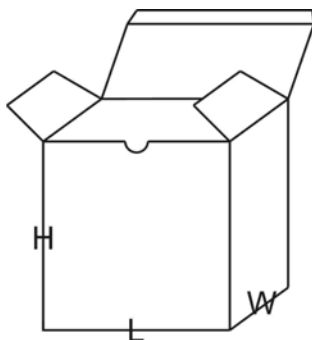


W	P	E	F	D	D1
12.0±0.3	4.0±0.1	1.75±0.1	5.5±0.05	1.50±0.1	1.0±0.1
P0	P1	A	B	C	T
4.0±0.1	2.0±0.05	2.7±0.1	5.3±0.1	2.66±0.1	0.6±0.1

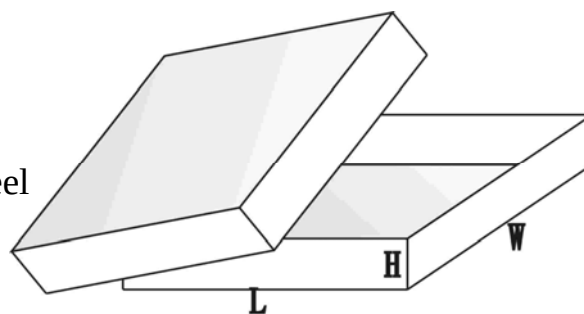
PACKING

Inner Box

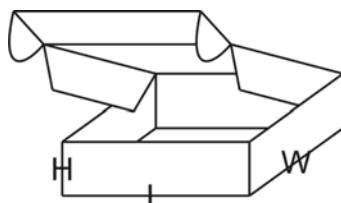
B1
7" Reel



C1
13" Reel

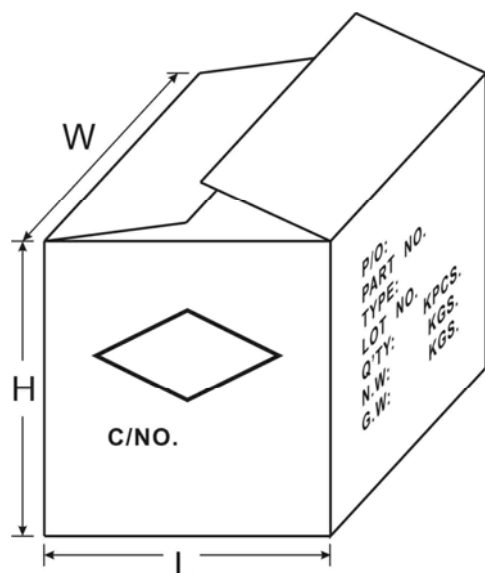


A1
7" Reel

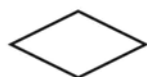


Box Type	Box Size	Reel /Box
	L*W*H(mm)	EA
B1	185*125*185	7
A1	185*180*65	3
C1	340*340*40	2

Carton



SHIPPING MARK



C/NO.
PRODUCT COUNTRY

SIDE MARK

P/O:
PART NO.
TYPE:
LOT NO.
Q'TY: KPCS.
N.W: KGS.
G.W: KGS.

Carton Type	Carton Size	Box / Carton	
	L*W*H(mm)	(B1)EA	(C1)EA
E2	395*370*400	12	10
E1	395*260*430	8	6
D1	395*390*158	4	3

Package	Reel Size	Q'ty/Reel	Box Type	Q'ty /Box	Carton Type	Q'ty /Carton	Approximate Gross
	inch /mm	pcs	-	pcs	-	pcs	kg
SMA	7 /178	1,800	B1	12,600	D1	50,400	7.0
	13 /330	7,500	C1	15,000	E2	150,000	20.0