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SX34-AU / SX36-AU

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Voltage

40~60 V

Current

3 A

SMA / DO-214AC

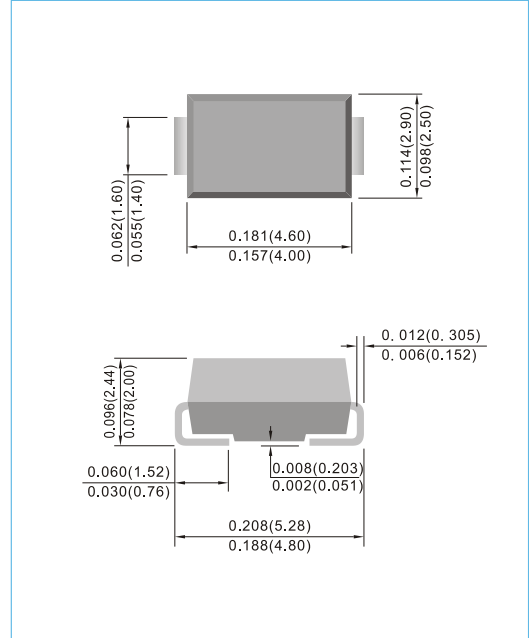
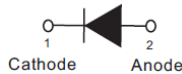
Unit : inch(mm)

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Standard packaging : 12mm tape (EIA-481)
- Approx. Weight: 0.0023 ounces, 0.0679 grams
- Marking: Part number



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

PARAMETER	SYMBOL	SX34-AU	SX36-AU	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	V	
Maximum rms voltage	V_{RMS}	28	42	V	
Maximum dc blocking voltage	V_R	40	60	V	
Maximum average forward rectified current	$I_{F(AV)}$	3		A	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80		A	
Maximum forward voltage at 3A (Note 1)	V_F	0.5	0.75	V	
Maximum dc reverse current at rated dc blocking voltage	I_R	$T_J=25^{\circ}\text{C}$	0.2	0.1	mA
		$T_J=100^{\circ}\text{C}$	20	20	
Typical thermal resistance	$R_{\theta JL}$	25		$^{\circ}\text{C/W}$	
	$R_{\theta JA}$	150			
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125	-55 to +150	$^{\circ}\text{C}$	

Note : 1. Pulse Test with $PW=300\mu\text{sec}$, 1% Duty Cycle.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area.

3. Mounted on a FR4 PCB, single-sided copper, mini pad.



SX34-AU / SX36-AU

RATING AND CHARACTERISTIC CURVES

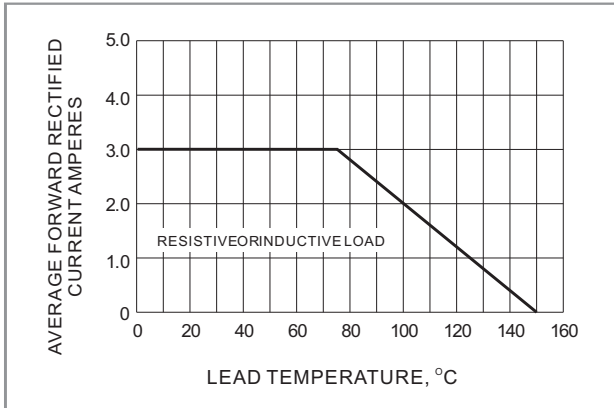


Fig.1- FORWARD CURRENT DERATING CURVE

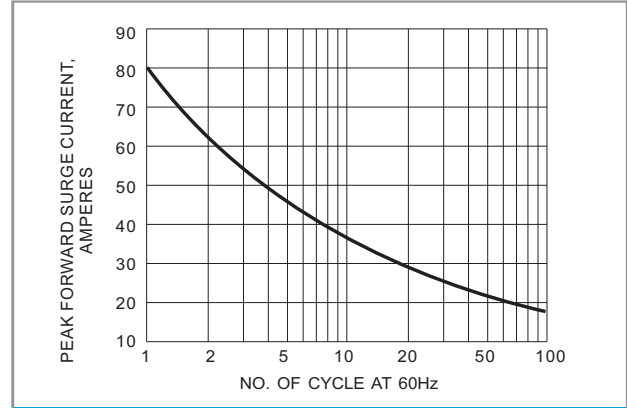


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

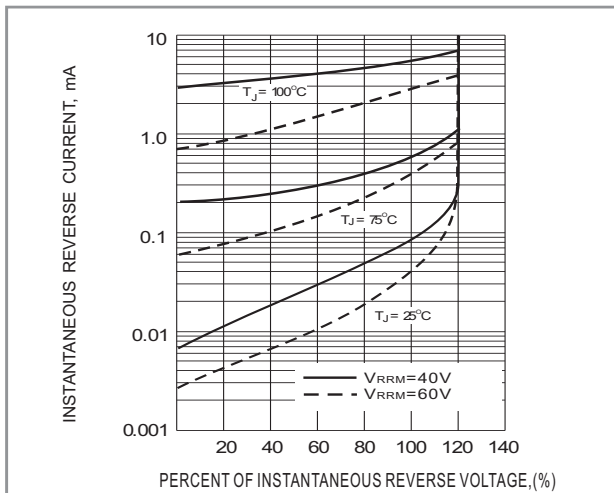


Fig.3- TYPICAL REVERSE CHARACTERISTICS

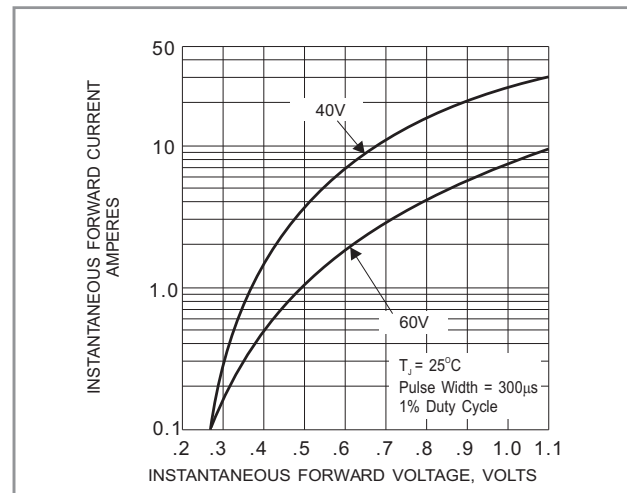


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

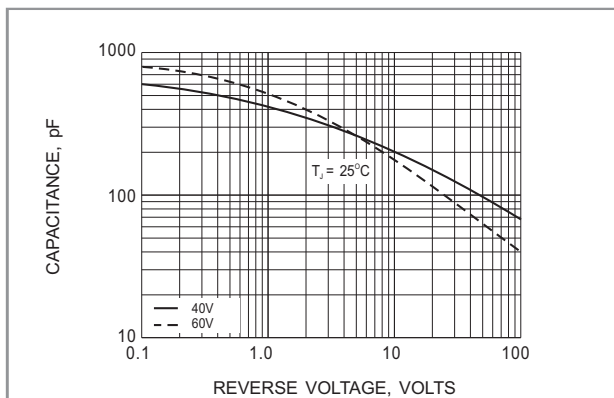


Fig.5- TYPICAL JUNCTION CAPACITANCE

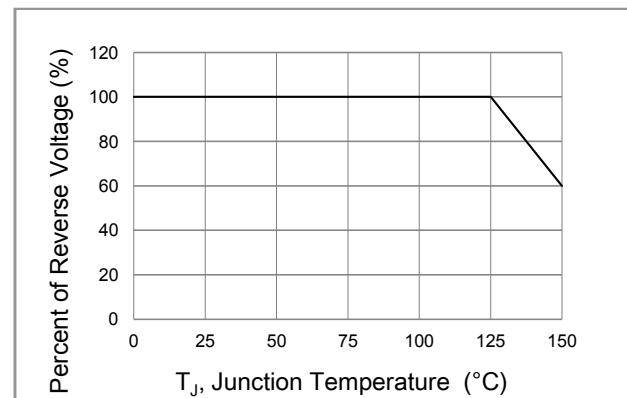
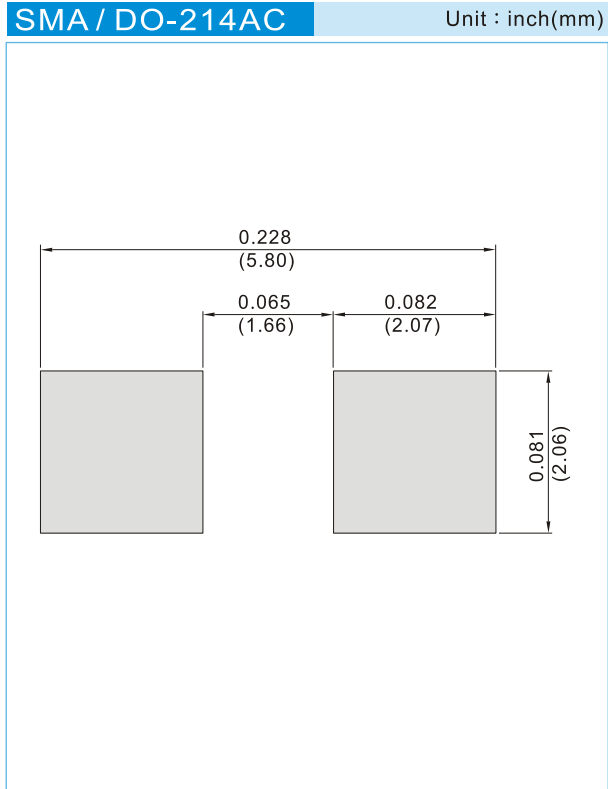


Fig.6- OPERATING TEMPERATURE DERATING CURVE



SX34-AU / SX36-AU

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R – 7.5K per 13" plastic Reel
T/R – 1.8K per 7" plastic Reel



SX34-AU / SX36-AU

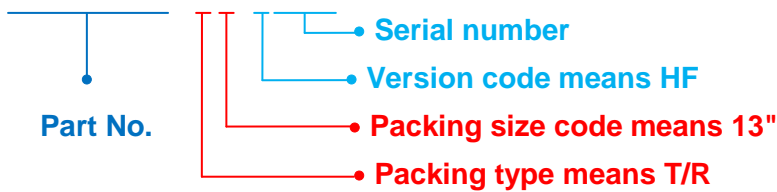
Part No_packing code_Version

SX34-AU_R2_000A1

SX34-AU_R2_100A1

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd -5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



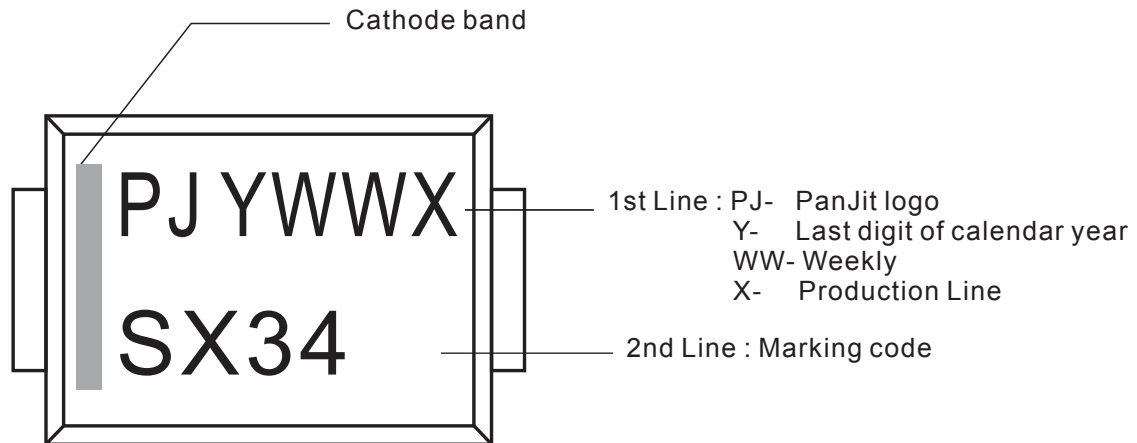
SX34-AU / SX36-AU

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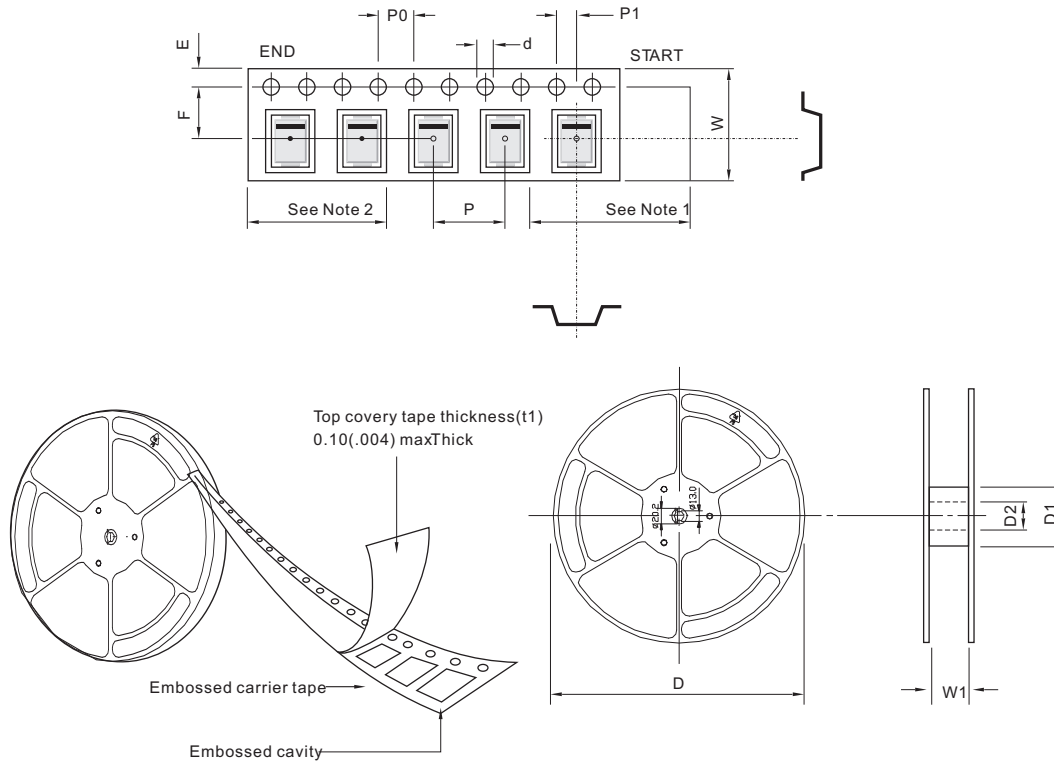


2. MARKING





3. TAPING



SYMBOL	mm(inch)	SYMBOL	mm(inch)	SYMBOL	mm(inch)
TYPE SIZE	12.00 (0.472)	TYPE SIZE	12.00 (0.472)	TYPE SIZE	16.00 (0.629)
Package	SMA/SMA(W)	Package	SMB	Package	SMC
d	1.55 ± 0.05 (0.06 ± 0.001)	d	1.55 ± 0.05 (0.06 ± 0.001)	d	1.55 ± 0.05 (0.06 ± 0.001)
D	178.0 ± 2.0 (7.0 ± 0.078)	D	178.0 ± 2.0 (7.0 ± 0.078)	D	178.0 ± 2.0 (7.0 ± 0.078)
D1	50.0 min (1.97 min)	D1	50.0 min (1.97 min)	D1	50.0 min (1.97 min)
D2	13.0 ± 0.2 (0.51 ± 0.007)	D2	13.0 ± 0.2 (0.51 ± 0.007)	D2	13.0 ± 0.5 (0.51 ± 0.019)
E	1.75 ± 0.10 (0.068 ± 0.003)	E	1.75 ± 0.10 (0.068 ± 0.003)	E	1.75 ± 0.10 (0.068 ± 0.003)
F	5.50 ± 0.1 (0.21 ± 0.003)	F	5.50 ± 0.05 (0.21 ± 0.001)	F	7.5 ± 0.10 (0.29 ± 0.003)
P	4.00 ± 0.10 (0.15 ± 0.003)	P	8.00 ± 0.10 (0.31 ± 0.003)	P	8.00 ± 0.10 (0.31 ± 0.003)
Po	4.00 ± 0.10 (0.15 ± 0.003)	Po	4.00 ± 0.10 (0.15 ± 0.003)	Po	4.00 ± 0.10 (0.15 ± 0.003)
P1	2.00 ± 0.1 (0.07 ± 0.003)	P1	2.00 ± 0.05 (0.07 ± 0.001)	P1	2.00 ± 0.10 (0.07 ± 0.003)
W	12.00 ± 0.3 (0.472 ± 0.118)	W	12.00 ± 0.3 (0.472 ± 0.118)	W	16.00 ± 0.3 (0.472 ± 0.118)
W1	12.40 ~ 14.40 Maximum (0.48 ~ 0.56)	W1	12.40 ~ 14.40 Maximum (0.48 ~ 0.56)	W1	16.40 ~ 18.40 Maximum (0.64 ~ 0.72)

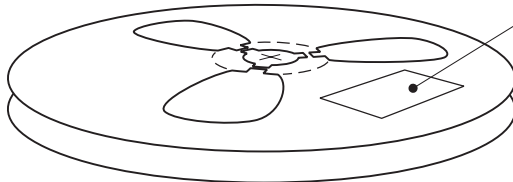
Note:

1. There shall be leader of 230 mm minimum which may consist of carrier and or cover tape follower by a minimum of 160 mm of carrier tape sealed with cover tape.
2. There shall be minimum of 160 mm of empty component pockets sealed with cover tape.
3. Devices are packed in accordance whit EIA standard EIA-481-A and specifications given above.



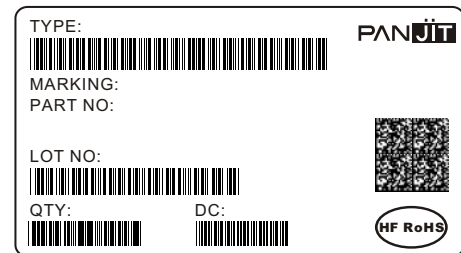
4. PACKING

REEL PACKING

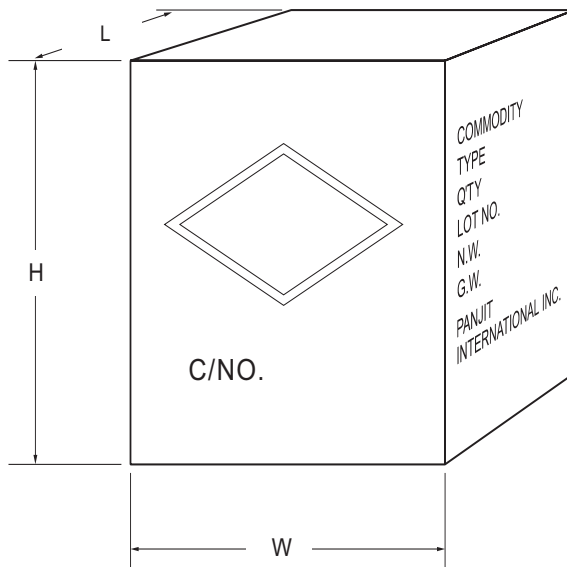


Quantity per Reel:

LABEL TYPE

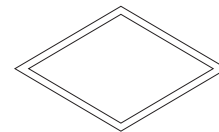


CARTON



Box Dimensions : mm
Quantity per Box:

SHIPPING MARK



C/NO.
PRODUCT COUNTRY

SIDE MARK

COMMODITY:
TYPE:
Q'TY:
LOT NO.
N.W.
G.W.
PANJIT
INTERNATIONAL INC.

Line	Package	Packing	Size	Quantity	Inner box size LxWxH (m/m)	Carton Quantity	Carton size LxWxH (m/m)
SMD	SMA	T/R	7"	1,800	188x188x67	10box/72K	390x240x420
	SMB	T/R		500	188x188x67	10box/20K	390x240x420
	SMC	T/R		500	188x188x67	10box/15K	390x240x420
	SMA(W)	T/R	13"	1,800	188x188x67	10box/72K	390x240x420
	SMA	T/R		7,500	350x337x44	8box/120K	375x360x390
	SMB	T/R		3,000	350x337x44	8box/48K	375x360x390
	SMC	T/R		3,000	350x337x44	7box/42K	375x360x390
	SMA(W)	T/R		7,500	350x337x44	8box/120K	355x355x400



Packing Specifications

Package	Reel Size	Reel	Carton Size	Carton	Approx. Gross Weight
	(inch)	(pcs)	(mm)	(EA)	(kg)
Reel Packing					
DFN 0603	7	10,000	390 x 270 x 400	800,000	9
DFN 2L	7	8,000	390 x 270 x 400	640,000	8.6
DFN 3L	7	8,000	390 x 270 x 400	640,000	8.6
DFN2510-10L	7	5,000	390 x 270 x 400	400,000	10.5
	13	12,000	375 x 360 x 213	144,000	6.4
DFN2020-6L(ESD)	7	3,000	455 x 270 x 440	240,000	12.3
DFN2020-8L(ESD)	7	3,000	390 x 270 x 400	240,000	11.2
DFN2020B-6L(ESD)	7	3,000	455 x 270 x 440	240,000	12.3
DFN3333-8L	13	5,000	375 x 360 x 422	70,000	9
DFN3810-9L	7	3,000	390 x 240 x 420	120,000	4.4
DFN5060-8L(ESD)	13	3,000	375 x 360 x 422	48,000	14.19
DFN5515-14L	7	5,000	390 x 270 x 400	400,000	17.7
DFN5515-18L	7	5,000	390 x 270 x 400	400,000	17.7
SC-59 (ESD)	7	3,000	455 x 270 x 440	240,000	9.9
MBF	13	5,000	375 x 360 x 390	80,000	15.9
SOP-8	13	2,500	375 x 360 x 422	40,000	7.4
SOD-923	7	8,000	390 x 270 x 400	640,000	7.7
SOD-523	7	5,000	390 x 270 x 400	400,000	9.1
	13	12,000	375 x 360 x 230	144,000	5.4
SOD-323HE	7	5,000	390 x 270 x 400	400,000	11.9
	13	12,000	375 x 360 x 230	144,000	8.3
SOD-323	7	5,000	390 x 270 x 400	400,000	9.4
	13	12,000	375 x 360 x 230	144,000	5.9
SOD-123HE	7	3,000	390 x 270 x 400	240,000	12.4
	13	10,000	375 x 360 x 230	120,000	8.1
SOD-123FL	7	3,000	390 x 270 x 400	240,000	10.6
	13	10,000	375 x 360 x 230	120,000	7.2
SOD-123	7	3,000	390 x 270 x 400	240,000	9.9
	13	10,000	375 x 360 x 230	120,000	6.5
SOT-723(ESD)	7	8,000	455 x 270 x 440	640,000	10.5
SOT-563	7	8,000	390 x 270 x 400	640,000	10.1
	13	20,000	375 x 360 x 230	240,000	6.2
SOT-553	7	4,000	390 x 270 x 400	320,000	9.4
	13	10,000	375 x 360 x 230	120,000	5.2
SOT-523	7	4,000	390 x 270 x 400	320,000	10
SOT-363	7	3,000	390 x 270 x 400	240,000	9.3
	13	10,000	375 x 360 x 230	120,000	7.1
SOT-353	7	3,000	390 x 270 x 400	240,000	10
	13	10,000	375 x 360 x 230	120,000	7.2
SOT-23 6L	7	3,000	390 x 270 x 400	240,000	14.5
	13	10,000	375 x 360 x 230	120,000	7.9
SOT-23 6L-1	7	3,000	390 x 270 x 400	240,000	14.5
	13	10,000	375 x 360 x 230	120,000	7.9
SOT-23 5L	7	3,000	390 x 270 x 400	240,000	14.5
	13	10,000	375 x 360 x 230	120,000	7.9
SOT-323	7	3,000	390 x 270 x 400	240,000	7.9
	13	12,000	375 x 360 x 230	144,000	6.1
SOT-23	7	3,000	390 x 270 x 400	240,000	9.8
	13	12,000	375 x 360 x 230	144,000	7
SOT-223	13	2,500	375 x 360 x 422	40,000	13.2
SOT-89 (ESD)	7	1,000	455 x 270 x 440	80,000	15.6



Packing Specifications

Package	Reel Size	Reel	Carton Size	Carton	Approx. Gross Weight
	(inch)	(pcs)	(mm)	(EA)	(kg)
Reel Packing					
SMAF	7	3,000	390 x 240 x 420	120,000	10.9
	13	10,000	375 x 360 x 422	160,000	17.1
SMBF	7	1,500	390 x 240 x 420	60,000	9.6
	13	5,000	375 x 360 x 422	80,000	15.6
SMA(W)	7	1,800	390 x 240 x 420	100,800	13
	13	7,500	355 x 355 x 400	150,000	20.4
SMA/DO-214AC	7	1,800	390 x 220 x 370	72,000	10
	13	7,500	375 x 360 x 390	120,000	17.4
SMB/DO-214AA	7	500	390 x 220 x 370	20,000	6.5
	13	3,000	375 x 360 x 390	48,000	13.2
SMC/DO-214AB	7	500	390 x 220 x 370	15,000	8.4
	13	3,000	375 x 360 x 390	42,000	18
R-1	13	5,000	340 x 340 x 410	25,000	7.8
DO-41	13	5,000	340 x 340 x 410	25,000	11.1
DO-15	13	4,000	340 x 340 x 410	20,000	11.4
DO-201AD	13	1,250	340 x 340 x 410	6,250	9.2
DO-201AE	13	1,250	340 x 340 x 410	6,250	9.2
P-600	13	800	340 x 340 x 410	4,000	9.9
DO-34	15	10,000	360 x 360 x 410	50,000	10.1
DO-35	15	10,000	360 x 360 x 410	50,000	11.2
DO-41G	15	5,000	360 x 360 x 410	25,000	10.9
MICRO-MELF	7	2,500	390 x 270 x 400	200,000	9.3
	13	10,000	355 x 355 x 400	200,000	11.5
QUADRO-MELF	7	2,500	390 x 270 x 400	200,000	13.3
	13	10,000	355 x 355 x 400	200,000	14.9
MINI-MELF/LL-34	7	2,500	390 x 270 x 400	200,000	12.7
	13	10,000	355 x 355 x 400	200,000	14.6
MELF/DL-41	7	1,500	390 x 270 x 400	84,000	18.3
	13	5,000	355 x 355 x 400	100,000	23.5
MDI	13	3,000	375 x 360 x 390	48,000	14.7
MICRO DIP/TDI	7	1,000	390 x 240 x 420	40,000	9.5
	13	4,000	375 x 360 x 422	64,000	17
SDIP	13	1,500	375 x 360 x 390	21,000	14.3
TO-277	7	1,500	390 x 240 x 420	60,000	13.5
	13	5,000	375 x 360 x 422	80,000	20.6
TO-277A	13	5,000	375 x 360 x 422	80,000	18.52
TO-277B	13	5,000	375 x 360 x 422	80,000	21.8
TO-252	13	3,000	375 x 360 x 422	48,000	25
TO-252AA	13	3,000	375 x 360 x 422	48,000	24.2
TO-263/D ² PAK	13	800	375 x 360 x 422	6,400	14.7



Packing Specifications

Package	Inner Box Size	Box	Carton Size	Carton	Approx. Gross Weight
	(mm)	(EA)	(mm)	(EA)	(kg)
Bulk Packing					
R-1	198 x 84 x 20	1,000	459 x 214 x 256	50,000	12.7
A-405	198 x 84 x 20	1,000	459 x 214 x 256	50,000	12.7
P-600	208 x 82 x 40	100	459 x 214 x 256	2,500	11.3
DO-15	200 x 85 x 25	1,000	459 x 214 x 256	40,000	20.7
DO-34	240 x 100 x 90	2,000	406 x 335 x 257	120,000	14.5
DO-35	240 x 100 x 90	2,000	406 x 335 x 257	120,000	17.1
DO-41	198 x 84 x 20	1,000	459 x 214 x 256	50,000	19.3
DO-41G	240 x 100 x 90	1,000	406 x 335 x 257	60,000	18.5
DO-201AD	200 x 85 x 40	500	459 x 214 x 256	12,500	16
DO-201AE	200 x 85 x 40	500	495 x 214 x 256	12,500	16
TO-220AC	540 x 145 x 85	2,000	555 x 306 x 200	8,000	22.9
ITO-220AC	540 x 145 x 85	2,000	555 x 306 x 200	8,000	20.5
TO-220AB	540 x 145 x 85	2,000	555 x 306 x 200	8,000	22.9
ITO-220AB	540 x 145 x 85	2,000	555 x 306 x 200	8,000	20.5
ITO-220AB-F	540 x 145 x 85	2,000	555 x 306 x 200	8,000	20.5
TO-251AA	555 x 145 x 95	8,000	580 x 310 x 220	32,000	18.6
TO-251AA-1	555 x 145 x 95	8,000	580 x 310 x 220	32,000	18.6
TO-251AB	555 x 145 x 95	8,000	580 x 310 x 220	32,000	18.6
TO-263/D2PAK	540 x 145 x 82	2,000	555 x 306 x 188	8,000	15.4
TO-92	188 x 188 x 67	5,000	390 x 420 x 240	50,000	13
TO-92S	188 x 188 x 67	5,000	390 x 420 x 240	50,000	13
GBP	235 x 160 x 35	500	500 x 250 x 195	7,500	13.3
GBPC	193 x 193 x 46	50	405 x 210 x 265	500	10.79
GBPC-F	193 x 193 x 46	50	405 x 210 x 265	500	9.73
GBU	220 x 120 x 43	250	510 x 235 x 245	5,000	21.5
	350 x 337 x 44	800	375 x 360 x 213	3,200	15.2
GBL	240 x 120 x 35	300	510 x 260 x 200	6,000	15
GBJ	200 x 145 x 42	200	455 x 220 x 240	3,000	14.5
KBPF	235 x 160 x 35	200	500 x 250 x 195	7,500	13.3
KBPC	193 x 193 x 46	50	405 x 210 x 265	500	16.52
KBL	257 x 125 x 50	200	415 x 275 x 300	3,000	18.9
KBU	270 x 145 x 60	200	455 x 282 x 330	3,000	26.07
KBJ	220 x 176 x 45	200	375 x 230 x 260	2,000	15
KBJ-P	220 x 176 x 45	200	375 x 230 x 260	2,000	15.05
D3K	210 x 155 x 30	500	480 x 225 x 170	7,500	11.6
TO-3PL	-	-	530 x 243 x 110	1,500	12.2
TO-3P/TO-247AD	-	-	530 x 243 x 100	1,500	13.9
DIP	-	-	459 x 214 x 256	12,000	6.5
SDIP	-	-	459 x 214 x 256	24,000	15.7



Packing Specifications

Package	Inner Box Size	Ammo	Carton Size	Carton	Appox. Gross Weight
	(mm)	(pcs)	(mm)	(EA)	(kg)
Ammunition Packing					
R-1	255 x 47 x 73	3,000	310 x 268 x 170	36,000	6.3
	255 x 73 x 73	3,000	310 x 268 x 170	24,000	6.3
	255 x 73 x 122	5,000	339 x 276 x 274	40,000	10.3
A-405	255 x 75 x 150	5,000	339 x 276 x 330	40,000	11.34
DO-201AD	255 x 75 x 150	1,250	339 x 276 x 330	10,000	13.4
DO-201AE	255 x 75 x 150	1,250	339 x 276 x 330	10,000	13.4
P-600	255 x 75 x 150	400	339 x 276 x 330	3,200	8.1
DO-15	255 x 75 x 150	3,000	339 x 276 x 330	40,000	13.3
	255 x 73 x 95	1,000	339 x 276 x 330	24,000	8.6
DO-34	248 x 80 x 48	5,000	410 x 268 x 345	150,000	15.3
	248 x 80 x 75	5,000	410 x 268 x 345	100,000	13.1
DO-35	248 x 80 x 48	5,000	410 x 268 x 345	150,000	17.5
	248 x 80 x 75	5,000	410 x 268 x 345	100,000	15.2
DO-41	255 x 75 x 150	5,000	339 x 276 x 330	40,000	15.9
	255 x 73 x 95	3,000	333 x 281 x 218	24,000	8.9
DO-41G	248 x 80 x 48	2,500	410 x 268 x 345	75,000	17.8
	248 x 80 x 75	2,000	410 x 268 x 345	50,000	16.4

5.HIGH RELIABILITY TEST SPEC

汽車廠測試項目與條件對照表

NO.	TEST ITEM	TEST CONDITION	REFERENCED DOCUMENT	TESTTER	LOT QUALITY LEVEL
1	Pre Condition (PC) SMD Qualification part for TC、AC、H3TRB、IOL	1. TCT -55~+150 5Cycle 2. Bake 125 +5/-0 °C 24hrs 3. Humidity 85°C / 85%RH 168hr 4. Reflow 3 Times	JESD22 A-113	1. TEMPERATURE CYCLE TESTER 2. HIGH TEMPERATURE BAKE BOX 3. HUMIDITY CHAMBER 4. HOT REFLOW TESTER	S.s= 77 / ITEM 4 Item Total 308 pcs ACCEPT FOR 0 FAILURE ONLY.
2	HIGH TEMPERATURE REVERSE BIAS (H.T.R.B)	Ta= for data sheet Tj Temperature±5°C VR=0.8VR(CUSTOMER SPEC.) DC supply 1,000hrs	JESD22 A-108	1. DC POWER SUPPLY 2. HIGH TEMPERATURE BAKE BOX	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
3	HIGH TEMPERATURE GATE BIAS (H.T.G.B)	Ta= for data sheet Tj Temperature±5°C VR=0.8VR(CUSTOMER SPEC.) DC supply 1,000hrs	JESD22 A-108	1. DC POWER SUPPLY 2. HIGH TEMPERATURE BAKE BOX	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
4	TEMPERATURE CYCLING (TCT)	Ta= -55 + 0/-10°C 10min(Min) Ta= +150 + 15/-0°C 10min(Min) Transfer time less than 1min. The load should reach temp. within 15mins 1,000cycle	JESD22 A-104	TEMPERATURE CYCLE TESTER	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
5	AUTOCLAVE (AC)	Ta= 121°C P= 15psig Relative Humidity = 100% Time : 96hrs	JESD22 A-102	PCT TESTER KSON PCT-A	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
6	HIGH HUMIDITY HIGH TEMP REVERSE BIAS (H3TRB)	Ta=85°C +/-2°C RH=85%+/-5% VR=80%VB(CUSTOMER SPEC.) DC supply TIME : 1,000hr	JESD22 A-101	1. HUMIDITY CHAMBER 2. DC POWER SUPPLY	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
7	INTERMITTENT OPERATIONAL LIFE (IOL)	△Tj≥ 100°C supply POWER ON: at least 2 min POWER OFF: 2 min 15,000Cycle	MIL-STD-750 METHOD 1037	1. DC POWER SUPPLY 2. TIMER	S.s= 77 ACCEPT FOR 0 FAILURE ONLY.
8	ESD CHARACTERIZATION -HBM	100 pF / 1.5 KΩ +/- 3Cycle	AEC-Q101-001	NOISKEN ESS-6008 TESTER	S.s= 30 ACCEPT FOR 0 FAILURE ONLY.
9	ESD CHARACTERIZATION -MM	200 pF / 0 KΩ +/- 3Cycle	AEC-Q101-002	NOISKEN ESS-6008 TESTER	S.s= 30 ACCEPT FOR 0 FAILURE ONLY.
10	RESISTANCE TO SOLDER HEAT (RSH)	TEMPERATURE OF SOLDER POT = 260±5°C TIME FOR DIPPING IN SOLDER = 10 + 2/-0 SEC	JESD22 B-106	SOLDER FURNACE TAIYO POT-100C	S.s= 30 ACCEPT FOR 0 FAILURE ONLY.
11	SOLDERABILITY (SD)	TEMPERATURE OF SOLDER POT = 245 ±5°C TIME FOR DIPPING IN SOLDER = 5 ±0.5 SEC	J-STD-002	SOLDER FURNACE TAIYO POT-100C	S.s= 10 ACCEPT FOR 0 FAILURE ONLY.
12	THEREMAL RESISTANCE (TR)		JESD24-3, 24-4, 24-6 as appropriate	PTJ-6002A TESTER	S.s= 10 ACCEPT FOR 0 FAILURE ONLY.

Remark :

1. 進行 TC、AC、H3TRB、IOL 等 4 Item 測試前，必須先進行 Test Item 1 (Pre Condition) 的測試，每個 ITEM 為 77pcs Total 308pcs，經測試合格後，將測試後的材料再分別進行 TC、AC、H3TRB、IOL 等 4 Item 的測試。
2. 其他測試項目不需要進行 Pre Condition 的測試，直接依據各測試項目所設定的測試條件進行測試。
3. Test Item 3 HTGB 為 MOSFET 特定測試項目，非此產品類別者不需要進行此項目之測試。
4. Test Item 7 IOL 為二極體測試項目，MOSFET、TVS、ZENER、BJT..等不需進行此項目測試。

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