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QUICK REFERENCE TABLE FOR SILICON RECTIFIERS


● SCHOTTKY BARRIER RECTIFIERS

	20	30	35	40	45	50	60	80	CASE	PAGE
1.0	1N5817	1N5818	-	1N5819	-	-	-	-	DO-41	11
1.0	SR102	SR103	-	SR104	-	SR105	SR106	SR108	DO-41	11
3.0	1N5820	1N5821	-	1N5822	-	-	-	-	DO-27	11
3.0	SR302	SR303	-	SR304	-	SR305	SR306	SR308	DO-27	11
5.0	SR502	SR503	-	SR504	-	SR505	SR506	SR508	DO-27	11
8.0	SR820	SR830	SR835	SR840	SR845	SR850	SR860	SR880	TO-220A	11
10	SR1020	SR1030	SR1035	SR1040	SR1045	SR1050	SR1060	-	TO-220A	12
16	SR1620	SR1630	SR1635	SR1640	SR1645	SR1650	SR1660	-	TO-220	12
30	SR3020	SR3030	SR3035	SR3040	SR3045	SR3050	SR3060	-	TO-3P	12
50	SR5020	SR5030	SR5035	SR5040	SR5045	SR5050	-	-	TO-3P	12


● SUPER FAST RECTIFIERS

	50	100	150	200	300	400	CASE	PAGE
1.0	SF11	SF12	SF13	SF14	SF15	SF16	DO-41	13
2.0	SF21	SF22	SF23	SF24	SF25	SF26	DO-25	13
3.0	SF31	SF32	SF33	SF34	SF35	SF36	DO-27	13
5.0	SF51	SF52	SF53	SF54	SF55	SF56	DO-27	13
8.0	SF81	SF82	SF83	SF84	SF85	SF86	TO-220A	14
16	SF161	SF162	SF163	SF164	SF165	SF166	TO-220	14
30	SF301	SF302	SF303	SF304	-	-	TO-3P	14

● ULTRA FAST RECTIFIERS

	50	100	200	300	400	600	800	CASE	PAGE
1.0	UF4001	UF4002	UF4003	-	UF4004	-	-	DO-41	15
3.0	UF5400	UF5401	UF5402	5403	UF5404	-	-	DO-27	15

● HITRA FAST RECTIFIERS

	50	100	150	200	300	400	CASE	PAGE	
1.0	HER101	HER102	HER103	HER104	HER105	HER106	HER107	DO-41	16

PRV(V) TYPE LO(A) (NO)	1000	1200	1400	1600	CASE	PAGE
0.1	PR1000	PR1200	PR1400	PR1600	DO-41	31


● FAST SWITCHING DIODE

PRV(V) TYPE LO(A) (NO)	75	100	200	300	400	600	800	CASE	PAGE
0.15	1N4151	1N4148	-	-	-	-	-	DO-35	20


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QUICK REFERENCE TABLE FOR SILICON RECTIFIERS


● SILICON RECTIFIERS

	50	100	200	400	600	800	1000	CASE	PAGE
1.0	1A1	1A2	1A3	1A4	1A5	1A6	1A7	R-1	22
1.0	RL101	RL102	RL103	RL104	RL105	RL106	RL107	A-405	22
1.0	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	DO-41	22
1.5	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399	DO-15	22
1.5	RL151	RL152	RL153	RL154	RL155	RL156	RL157	DO-15	22
2.0	RL201	RL202	RL203	RL204	RL205	RL206	RL207	DO-15	23
2.5	RL251	RL252	RL253	RL254	RL255	RL256	RL257	R-3	23
3.0	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	DO-27	23
3.0	-	-	BY251	BY252	BY253	BY254	-	DO-27	23
6.0	6A05	6A1	6A2	6A4	6A6	6A8	6A10	R-6	23
6.0	P600A	P600B	P600D	P600G	P600J	P600K	P600M	R-6	23


● HIGH VOLTAGE RECTIFIERS (1)

	1000	1200	1250	1300	1500	1600	1800	CASE	PAGE
1.0	-	-	BY127	BY133	-	EM513	EM516	DO-41	22
1.0	-	1A8	-	-	1A9	-	-	R-1	22
3.0	-	-	-	BY255	-	-	-	DO-27	23

● HIGH VOLTAGE RECTIFIERS(2)


	1200	1500	1800	2000	2500	3000	4000	5000	CASE	PAGE
0.2	-	-	-	R2000	R2500	R3000	R4000	R5000	DO-41/DO-15	30
0.2	-	-	-	R2000F	R2500F	R3000F	R4000F	R5000F	DO-41/DO-15	30
0.5	R1200	R1500	R1800	-	-	-	-	-	DO-41	30
0.5	R1200F	R1500F	R1800F	-	-	-	-	-	DO-41	30

● HIGH VOLTAGE RECTIFIERS(3)


	5KV	8KV	10KV	12KV	14KV	15KV	16KV	CASE	PAGE
0.35	HVM5	HVM8	HVM10	HVM12	HVM14	HVM15	-	HVM	30
0.35	HV5	HV8	HV10	HV12	HV14	HV15	-	HV	31
0.50	HC5	HC8	HC10	HC12	-	HC15	-	HC	31
0.75	HVP5	HVP8	HVP10	HVP12	HVP14	HVP15	HVP16	HVP	31

1.5	HER151	HER152	HER153	HER154	HER155	HER156	HER157	DO-15	16
2.5	HER251	HER252	HER253	HER254	HER255	HER256	HER257	R-3	16
3.0	HER301	HER302	HER303	HER304	HER305	HER306	HER307	DO-27	16
6.0	HER601	HER602	HER603	HER604	HER605	-	-	R-6	16
8.0	HER801	HER802	HER803	HER804	HER805	-	-	TO-220A	17
16	HER1601	HER1602	HER1603	HER1604	HER1605	-	-	TO-220	17
30	HER3001	HER3002	HER3003	HER3004	HER3005	-	-	TO-3P	17

● FAST RECOVERY RECTIFIERS


	50	100	200	400	600	800	1000	CASE	PAGE
1.0	1F1	1F2	1F3	1F4	1F5	1F6	1F7	R-1	18
1.0	RL101F	RL102F	RL103F	RL104F	RL105F	RL106F	RL107F	A-405	18
1.0	FR101	FR102	FR103	FR104	FR105	FR106	FR107	DO-41	18
1.0	-	-	-	BA157	BA158	-	BA159	DO-41	18
1.0	1N4933	1N4934	1N4935	1N4936	1N4937	-	-	DO-41	18
1.0	-	-	1N4942	1N4944	1N4946	1N4947	1N4948	DO-41	18
1.5	FR151	FR152	FR153	FR154	FR155	FR156	FR157	DO-15	19
1.5	FR151	FR152	FR153	FR154	FR155	FR156	FR157	DO-15	19
2.0	FR201	FR202	FR203	FR204	FR205	FR206	FR207	DO-15	19
2.0	-	BY296	BY297	BY298	-	BY299	-	DO-15	19
2.5	FR251	FR252	FR253	FR254	FR255	FR256	FR257	R-3	19
3.0	FR301	FR302	FR303	FR304	FR305	FR306	FR307	DO-27	19
3.0	-	BY396	BY397	BY398	-	BY399	-	DO-27	19
6.0	FR601	FR602	FR603	FR604	FR605	FR606	FR607	R-6	20
6.0	FR601	FR602	FR603	FR604	FR605	FR606	FR607	R-6	20
8.0	FR801	FR802	FR803	FR804	FR805	FR806	-	TO-220A	20

● SOFT RECOVERY/FAST SWITCHING RECTIFIERS

	50	100	200	400	600	800	CASE	PAGE
1.0	SFR101	SFR102	SFR103	SFR104	SFR105	SFR106	DO-41	21
3.0	SFR301	SFR302	SFR303	SFR304	SFR305	SFR306	DO-27	21
5.0	SFR501	SFR502	SFR503	SFR504	SFR505	SFR506	R-6	21
6.0	SFR601	SFR602	SFR603	SFR604	SFR605	SFR606	R-6	21

● PHOTOFLASH RECTIFIERS

- *AUTOMOBILE RECTIFIERS*

	50	100	200	400	600	800	1000	CASE	PAGE
6.0	RL750	RL751	RL752	RL754	RL756	-	-	RA-L	29
25	RA2505	RA251	RA252	RA254	RA256	RA258	RA2510	RA	29
35	RA3505	RA351	RA352	RA354	RA356	RA358	RA3510	RA	29


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QUICK REFERENCE TABLE FOR GLASS PASSIVATED RECTIFIERS


● GLASS PASSIVATED RECTIFIERS

	50	100	200	400	600	800	1000	CASE	PAGE
1.0	1G1	1G2	1G3	1G4	1G5	1G6	1G7	R-1	26
1.0	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	A-405	26
1.0	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	DO-41	26
1.5	RL151G	RL152G	RL153G	RL154G	RL155G	RL156G	RL157G	DO-15	26
1.5	1N5391G	1N5392G	1N5393G	1N5394G	1N5395G	1N5396G	1N5397G	DO-15	27
2.0	RL201G	RL202G	RL203G	RL204G	RL205G	RL206G	RL207G	DO-15	27
3.0	1N5400G	1N5401G	1N5402G	1N5404G	1N5406G	1N5407G	1N5408G	DO-27	27
6.0	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	R-6	27

● FAST RECOVERY GALASS PASSIVATED RECTIFIERS

	50	100	200	400	600	800	1000	CASE	PAGE
1.0	RL101FG	RL102FG	RL103FG	RL104FG	RL105FG	RL106FG	RL107FG	A-405	24
1.0	FR101G	FR102G	FR103G	FR104G	FR105G	FR106G	FR107G	DO-41	24
1.0	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	-	-	DO-41	24
1.0	-	-	1N4942G	1N4944G	1N4946G	1N4947G	1N4948G	DO-41	24
1.5	FR151G	FR152G	FR153G	FR154G	FR155G	FR156G	FR157G	DO-15	24
2.0	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G	DO-15	25
3.0	FR301G	FR302G	FR303G	FR304G	FR305G	FR306G	FR307G	DO-27	25
6.0	FR601G	FR602G	FR603G	FR604G	FR605G	FR606G	FR607G	R-6	25

● SURFACE MOUNT DEVICES-RECTIFIERS

	50	100	200	400	600	800	1000	CASE	PAGE
1.0	G1	G2	G3	G4	G5	G6	G7	SM-A	28
1.0	F1	F2	F3	F4	F5	F6	F7	SM-A	28

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HIGH REL IABILITY EXPERIMENT LIST

NO.EXPERIMENT ITEM	EXPERIMENT METHOD AND CONDITIONS	DOCUMENTATION
1.SOLDERABILTY	230 °C ± 5°C/5 SEC	MIL-STD-202F METHOD-208
2.PULL TEST	1KGIN AXIAL LEAD DIRECTION/10 SEC.	MIL-STD-750C METHOD-2036
3.BEND TEST	0.5KG WEIGHT APPLIED TO EACH LEAD FOR THREE TIMES 90 ± 5 ARCS	MIL-STD-750C METHOD-2036
4.HIGH TEMPERATURE REVERSE BLAS	Ta=120°C/1000HRS/Vr=80% RATED Vr	MIL-STD-750C METHOD-1026
5.FORWARD OPERATION LIFE	Ta=25°C RATED AVERAGE RECTIFIED CURRENT/500HRS.	MIL-STD-750C METHOD-1027
6.INTERMITENT OPERATION LIFE	(1)ON:5MIN Tj=125°C-175°C WITH RATED Irms POWER (2)OFF:5MIN Tj=Ta+15°C WITH COOL FORCED AIR (3)1000 CYCLES	MIL-STD-750C METHOD-1036
7.PRESSURE COOKER	15 PSIG,TA=121°C,4 HRS	-
8.TEMPERATURE CYCLING	(1)-15°C/+125°C 30 MINUTES FOR SWELLED TIME (2)5MINUTES FOR TRANSFERD TIME (3)10 CYCLES	MIL-STD-750C METHOD-1051
9.THERMAL SHOCK	0°C/5 MIN, 100°C/5MIN, 30 CYCLES	MIL-STD-750C METHOD-1056
10.FORWARD-SURGE	8.3MS SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD ONE SURGE	MIL-STD-750C METHOD-4066-2
11.HUMIDITY TEST	TA=65°C,RH=98%,T=100 HRS	MIL-STD-202F METHOD-103B
12.HIGH TEMPERATURE STOREAE LIFE	150°C/1000 HRS	MIL-STD-750C METHOD-1031
13.SOLDER RESISTANCE	260 ± 5 °C 10 SEC IMMERSE BODY INTO SOLDER 1/16" ± 1/32'	MIL-STD-750C METHOD-2031
14.SOLVENT RESISTANCE	DIP INTO FREON @25°C FOR 1MIN	MIL-STD-202F METHOD-215



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SCHOTTKY BARRIER RECTIFIERS

OPERATING TEMPERATURE RANGE

20V to 45V : -55°C to +125°C

50V to 80V : -65°C to +150°C

STORAGE TEMPERATURE RANGE: -65°C to +150°C

1.0 AMPERE-SCHOTTKY/DO-41



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk
1N5817	20	1.0	90	25	1.0	1.0	0.45
1N5818	30	1.0	90	25	1.0	1.0	0.55
1N5819	40	1.0	90	25	1.0	1.0	0.60
SR102	20	1.0	75	40	1.0	1.0	0.55
SR103	30	1.0	75	40	1.0	1.0	0.55
SR104	40	1.0	75	40	1.0	1.0	0.55
SR105	50	1.0	100	40	1.0	1.0	0.70
SR106	60	1.0	100	40	1.0	1.0	0.70
SR108	80	1.0	100	40	1.0	1.0	0.70

T* Lead Temp^{@3/8"}Fro, Body

3.0 AMPERES-SCHOTTKY/DO-27



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk

1N5820	20	3.0	95	80	2.0	3.0	0.475
1N5821	30	3.0	95	80	2.0	3.0	0.500
1N5822	40	3.0	95	80	2.0	3.0	0.525
SR302	20	3.0	75	150	3.0	3.0	0.55
SR303	30	3.0	75	150	3.0	3.0	0.55
SR304	40	3.0	75	150	3.0	3.0	0.55
SR305	50	3.0	100	150	3.0	3.0	0.75
SR306	60	3.0	100	150	3.0	3.0	0.75
SR308	80	3.0	100	150	3.0	3.0	0.75

T* Lead Temp^{@3/8"}Fro, Body

5.0 AMPERES-SCHOTTKY/DO-27



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk
SR502	20	5.0	60	250	10	5.0	0.57
SR503	30	5.0	60	250	10	5.0	0.57
SR504	40	5.0	60	250	10	5.0	0.57
SR505	50	5.0	85	250	10	5.0	0.70
SR506	60	5.0	85	250	10	5.0	0.70
SR508	80	5.0	85	250	10	5.0	0.70

T* Lead Temp^{@3/8"}Fro, Body

8.0 AMPERES-SCHOTTKY/TO-220A



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{pk}	V _{pk}
SR820	20	8.0	*90	150	5.0	8.0	0.65
SR830	30	8.0	*90	150	5.0	8.0	0.65
SR835	35	8.0	*90	1500	5.0	8.0	0.65
SR840	40	8.0	*75	150	5.0	8.0	0.65
SR845	45	8.0	*90	150	5.0	8.0	0.65
SR850	50	8.0	*115	150	5.0	8.0	0.75
SR860	60	8.0	*115	150	5.0	8.0	0.75
SR880	80	8.0	*115	150	5.0	8.0	0.75

T* Lead Temp^{@3/8"}Fro, Body

NOTES:

- 1.Suffix "R" for Reverse Polarity.
- 2."*" Case Temperature T_c Measured At Metal Tap.

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SOFT RECOVERY/FAST SWITCHING RECTIFIERS

OPERATING AND STORAGE TEMPERATURE RANGE: -50 °C to +125°C
STORAGE TEMPERATURE: -50°C to +150°C

1.0 AMPERE SOFT RECOVERY/FAST SWITCHING/DO-41

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
SFR101	50	1.0	55	30	10	1.0	1.3	100
SFR102	100	1.0	55	30	10	1.0	1.3	100
SFR103	200	1.0	55	30	10	1.0	1.3	100
SFR104	400	1.0	55	30	10	1.0	1.3	100
SFR105	600	1.0	55	30	10	1.0	1.3	200
SFR106	800	1.0	55	30	10	1.0	1.3	200

NOTE: T_{rr} Test @ I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

3.0 AMPERES SORT RECOVERY/FAST SWITCHING/DO-27

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
SFR301	50	3.0	55	150	10	3.0	1.3	100

SFR302	100	3.0	55	150	10	3.0	1.3	100
SFR303	200	3.0	55	150	10	3.0	1.3	150
SFR304	400	3.0	55	150	10	3.0	1.3	150
SFR305	600	3.0	55	150	10	3.0	1.3	200
SFR306	800	3.0	55	150	10	3.0	1.3	200

5.0 AMPERES SORT RECOVERY/FAST SWITCHING/R-6

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{pk}	V _{pk}	nS
SFR501	50	5.0	55	300	25	5.0	1.3	100
SFR502	100	5.0	55	300	25	5.0	1.3	100
SFR503	200	5.0	55	300	25	5.0	1.3	150
SFR504	400	5.0	55	300	25	5.0	1.3	150
SFR505	600	5.0	55	300	25	5.0	1.3	200
SFR506	800	5.0	55	300	25	5.0	1.3	200

6.0 AMPERES SORT RECOVERY/FAST SWITCHING/R-6

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}

	VPK	A_{AV}	°C	A_{PK}	mAdc	Apk	Vpk	nS
SFR601	50	6.0	55	300	25	6.0	1.3	100
SFR602	100	6.0	55	300	25	6.0	1.3	100
SFR603	200	6.0	55	300	25	6.0	1.3	150
SFR604	400	6.0	55	300	25	6.0	1.3	150
SFR605	600	6.0	55	300	25	6.0	1.3	200
SFR606	800	6.0	55	300	25	6.0	1.3	200

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GLASS PASSIVATED RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65 °C to +175°C

1.0 AMPERE-GLASS PASSIVATED/R-1

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{pk}	V _{pk}
1G1	50	1.0	25	25	5.0	1.0	1.1
1G2	100	1.0	25	25	5.0	1.0	1.1
1G3	200	1.0	25	25	5.0	1.0	1.1
1G4	400	1.0	25	25	5.0	1.0	1.1
1G5	600	1.0	25	25	5.0	1.0	1.1
1G6	800	1.0	25	25	5.0	1.0	1.1
1G7	1000	1.0	25	25	5.0	1.0	1.1

1.0 AMPERE-GLASS PASSIVATED/A-405

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	mAdc	A _{pk}	V _{pk}
RL101G	50	1.0	75	30	5.0	1.0	1.1
RL102G	100	1.0	75	30	5.0	1.0	1.1
RL103G	200	1.0	75	30	5.0	1.0	1.1
RL104G	400	1.0	75	30	5.0	1.0	1.1
RL105G	600	1.0	75	30	5.0	1.0	1.1

RL106G	800	1.0	75	30	5.0	1.0	1.1
RL107G	1000	1.0	75	30	5.0	1.0	1.1

1.0 AMPERE-GLASS PASSIVTED/DO-41

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk
1N4001G	50	1.0	75	30	5.0	1.0	1.1
1N4002G	100	1.0	75	30	5.0	1.0	1.1
1N4003G	200	1.0	75	30	5.0	1.0	1.1
1N4004G	400	1.0	75	30	5.0	1.0	1.1
1N4005G	600	1.0	75	30	5.0	1.0	1.1
1N4006G	800	1.0	75	30	5.0	1.0	1.1
1N4007G	1000	1.0	75	30	5.0	1.0	1.1

1.5 AMPERE-GLASS PASSIVTED/DO-15

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A	
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk
RL151G	50	1.5	75	60	5.0	1.5	1.1
RL152G	100	1.5	75	60	5.0	1.5	1.1
RL153G	200	1.5	75	60	5.0	1.5	1.1
RL154G	400	1.5	75	60	5.0	1.5	1.1

RL155G	600	1.5	75	60	5.0	1.5	1.1
RL156G	800	1.5	75	60	5.0	1.5	1.1
RL157G	1000	1.5	75	60	5.0	1.5	1.1



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SURFACE MOUNT DEVICES FOR HYBRID APPLICATIONS

OPERATING AND STORAGE TEMPERATURE -55°C to +175°C

1.0 AMPERE-GLASS PASSIVTED/SM-A



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
G1	50	1.0	75	30	5.0	1.0	1.1	-
G2	100	1.0	75	30	5.0	1.0	1.1	-
G3	200	1.0	75	30	5.0	1.0	1.1	-
G4	400	1.0	75	30	5.0	1.0	1.1	-
G5	600	1.0	75	30	5.0	1.0	1.1	-
G6	800	1.0	75	30	5.0	1.0	1.1	-
G7	1000	1.0	75	30	5.0	1.0	1.1	-

1.0 AMPERE-FAST RECOVERY-GLASS PASSIVTED/SM-A



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS

F1	50	1.0	55	30	5.0	1.0	1.3	150
F2	100	1.0	55	30	5.0	1.0	1.3	150
F3	200	1.0	55	30	5.0	1.0	1.3	150
F4	400	1.0	55	30	5.0	1.0	1.3	150
F5	600	1.0	55	30	5.0	1.0	1.3	150
F6	800	1.0	55	30	5.0	1.0	1.3	150
F7	1000	1.0	55	30	5.0	1.0	1.3	150

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AUTOMOILE RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -55°C to +175°C

6.0 AMPERES/ RA-L



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
RL750	50	6.0	*60	400	25	6.0	0.90	
RL751	100	6.0	*60	400	25	6.0	0.90	
RL752	200	6.0	*60	400	25	6.0	0.90	
RL754	400	6.0	*60	400	25	6.0	0.90	
RL756	600	6.0	*60	400	25	6.0	0.90	

25 AMPERES-PLASTIC BUTTON/ RA



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS

RA2505	50	25	150	400	25	25	1.0
RA251	100	25	150	400	25	25	1.0
RA252	200	25	150	400	25	25	1.0
RA253	300	25	150	400	25	25	1.0
RA254	400	25	150	400	25	25	1.0
RA255	500	25	150	400	25	25	1.0
RA256	600	25	150	400	25	25	1.0
RA258	800	25	150	400	25	25	1.0
RA2510	1000	25	150	400	25	25	1.0

35 AMPERES-PLASTIC BUTTON/ RA



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
RA3505	50	35	105	400	25	35	1.2	
RA351	100	35	105	400	25	35	1.2	
RA352	200	35	105	400	25	35	1.2	
RA353	300	35	105	400	25	35	1.2	
RA354	400	35	105	400	25	35	1.2	
RA355	500	35	105	400	25	35	1.2	
RA356	600	35	105	400	25	35	1.2	
RA358	800	35	105	400	25	35	1.2	
RA3510	1000	35	105	400	25	35	1.2	

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HIGH VOLTAGE RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -55 °C to +150°C

HIGH VOLTAGE/DO-41/DO-15

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
R1200	1200	500	50	30	5.0	0.5	2.0	-
R1500	1500	500	50	30	5.0	0.5	2.0	-
R1800	1800	500	50	30	5.0	0.5	2.0	-
R2000	2000	200	50	30	5.0	0.5	3.0	-
R2500	2500	200	50	30	5.0	0.5	3.0	-
R3000	3000	200	50	30	5.0	0.5	4.0	-
R4000	4000	200	50	30	5.0	0.5	5.0	-
R5000	5000	200	50	30	5.0	0.5	5.0	-

HIGH VOLTAGE FAST RECOVERY/DO-41/DO-15

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
R1200F	1200	500	50	30	5.0	0.5	2.5	500
R1500F	1500	500	50	30	5.0	0.5	2.5	500

R1800F	1800	500	50	30	5.0	0.5	2.5	500
R2000F	2000	200	50	30	5.0	0.5	4.0	500
R2500F	2500	200	50	30	5.0	0.5	4.0	500
R3000F	3000	200	50	30	5.0	0.5	5.0	500
R4000F	4000	200	50	30	5.0	0.5	6.5	500
R5000F	5000	200	50	30	5.0	0.5	6.5	500

1.0 AMPERE-FAST RECOVERY-GLASS PASSIVED/DO-41



TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
HVM5	500	350	50	50	5.0	0.35	8.0	-
HVM8	800	350	50	50	5.0	0.35	13.5	-
HVM10	1000	350	50	50	5.0	0.35	13.5	-
HVM12	1200	350	50	50	5.0	0.35	13.5	-
HVM14	1400	350	50	50	5.0	0.35	14.0	-
HVM15	1500	350	50	50	5.0	0.35	14.0	-

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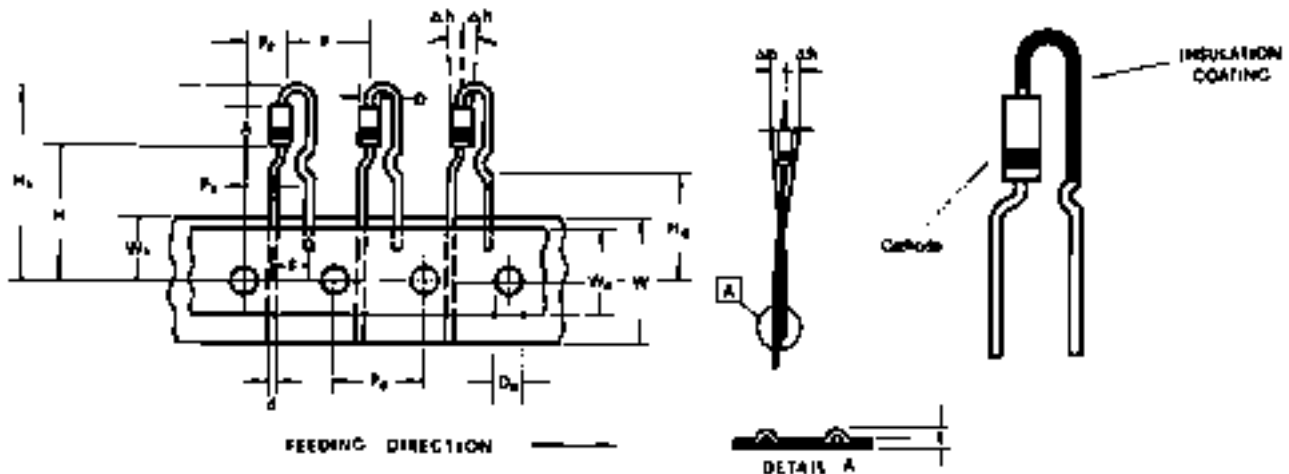
PHOTOFLASH RECTIFIERS

OPERATING AND STORAGE TEMPERATURE: -65°C to +1750°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25 °C T _A	Maximum Forward Voltage @ 25 °C T _A		Maximum Reverse Recovery Time
	PRV	I _o @T _L *		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}
	VPK	A _{AV}	°C	A _{PK}	mAdc	Apk	Vpk	nS
PR1000	1000	100	55	20	5.0	0.1	1.5	300
PR1200	1200	100	55	20	5.0	0.1	1.5	300
PR1400	1400	100	55	20	5.0	0.1	1.5	300
PR1600	1600	100	55	20	5.0	0.1	1.5	300

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RADIAL-TAPING SPECIFICATIONS FOR RECTIFIERS



Unit: mm (inch)

ITEM	SYMBOL	PANASERT
Body diameter	D	2.0-2.7 (0.08-0.107)
Body height	A	4.1-5.2 (0.16-0.205)
Lead-wire diameter	d	0.56-0.66 (0.022-0.026)
Component pitch	p	12.7 ± 1.0(0.50 ± 0.039)
Feed hole pitch	p ₁	12.7 ± 0.3(0.50 ± 0.012)
Component lead spacing	F	4.9-5.4(0.193-0.213)
Deflection	h	± 2.0(0.079)
Tape width	W	18.1 ± 0.9 (0.71 ± 0.035)
Hole-down tape width	W ₀	12.5(0.492)min
Hole position	W ₁	9.90-10.30(0.390-0.406)
Length from seating plane	H	19.5 ± 1.5 (0.768 ± 0.059)
Component height	H ₁	32.25 (1.27) max
Feed hole diameter	D ₀	4.0 ± 0.3 (0.157 ± 0.012)
Total tape thickness	t	1.5 (0.059) max
Lead-wire clinch height	H _c	15.0 (0.59) min
Feed hole center to lead	p ₂	3.85 ± 0.7 (0.152 ± 0.028)
Center of seating plane location	p ₃	6.35 ± 1.0 (0.250 ± 0.040)
STANDARD PACKAGING/ (EA)		REEL/ 2.5K
STANDARD PACKAGING/ (EA)		AMMO BOX/ 2K

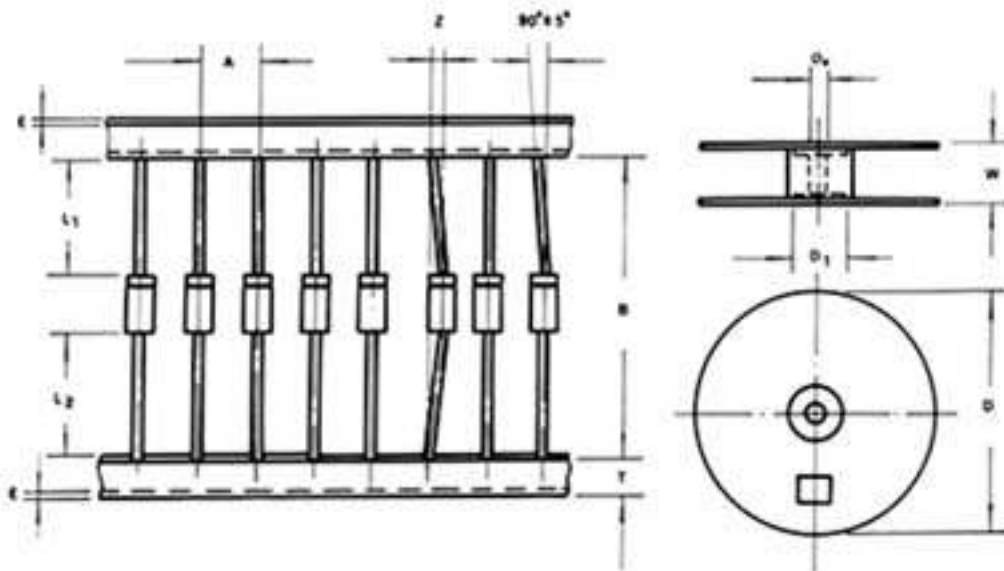
- NOTE:** 1.Packaging per EIA/JEDEC Standard RS-468.Available Only for A-405 product
 2.Maximum cumulative pitch tolerance:2.0mm/10pitch
 3.Non-standard Pckaging is available for special order.

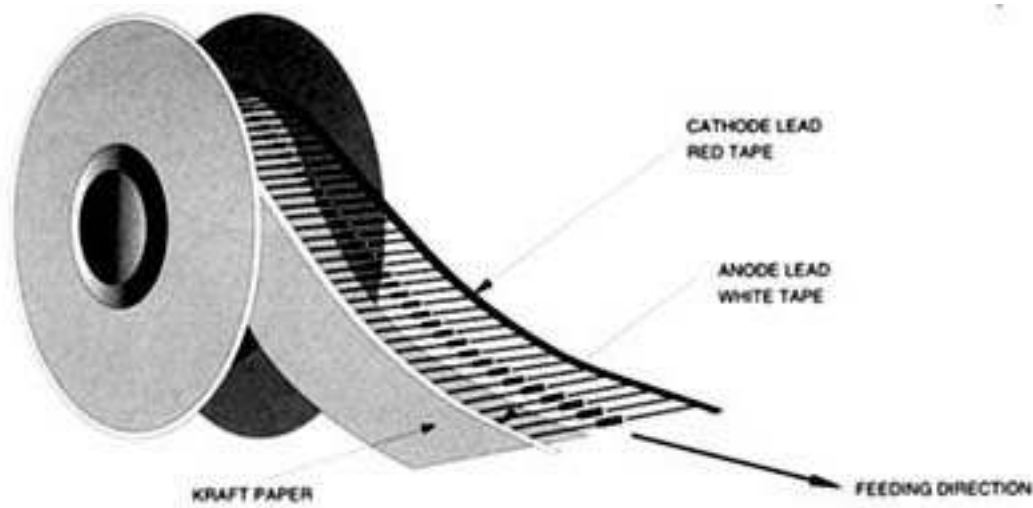
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AXIAL LEAD TAPING SPECIFICATIONS FOR RECTIFIERS

Axial Lead devices are packed in accordance with EIA standard RS-296-D and specifications given below.

COMPONENT OUTLINE	COMPONENT PITCH A	INNER TAPE PITCH B	CUMULATIVE PITCH
	: 0.5mm(0.020")	: 1.5mm(0.059")	TOLERANCE
A-405	5.0mm	26.0mm	2.0mm/20pitch
A-405	5.0mm	52.4mm	2.0mm/10pitch
DO-41	5.0mm	26.0mm	2.0mm/20pitch
DO-41	5.0mm	52.4mm	2.0mm/10pitch
DO-15	5.0mm	52.4mm	2.0mm/10pitch
R-3	5.0mm	52.4mm	2.0mm/10pitch
DO-27	10.0mm	52.4mm	2.0mm/10pitch
R-6	10.0mm	52.4mm	2.0mm/10pitch



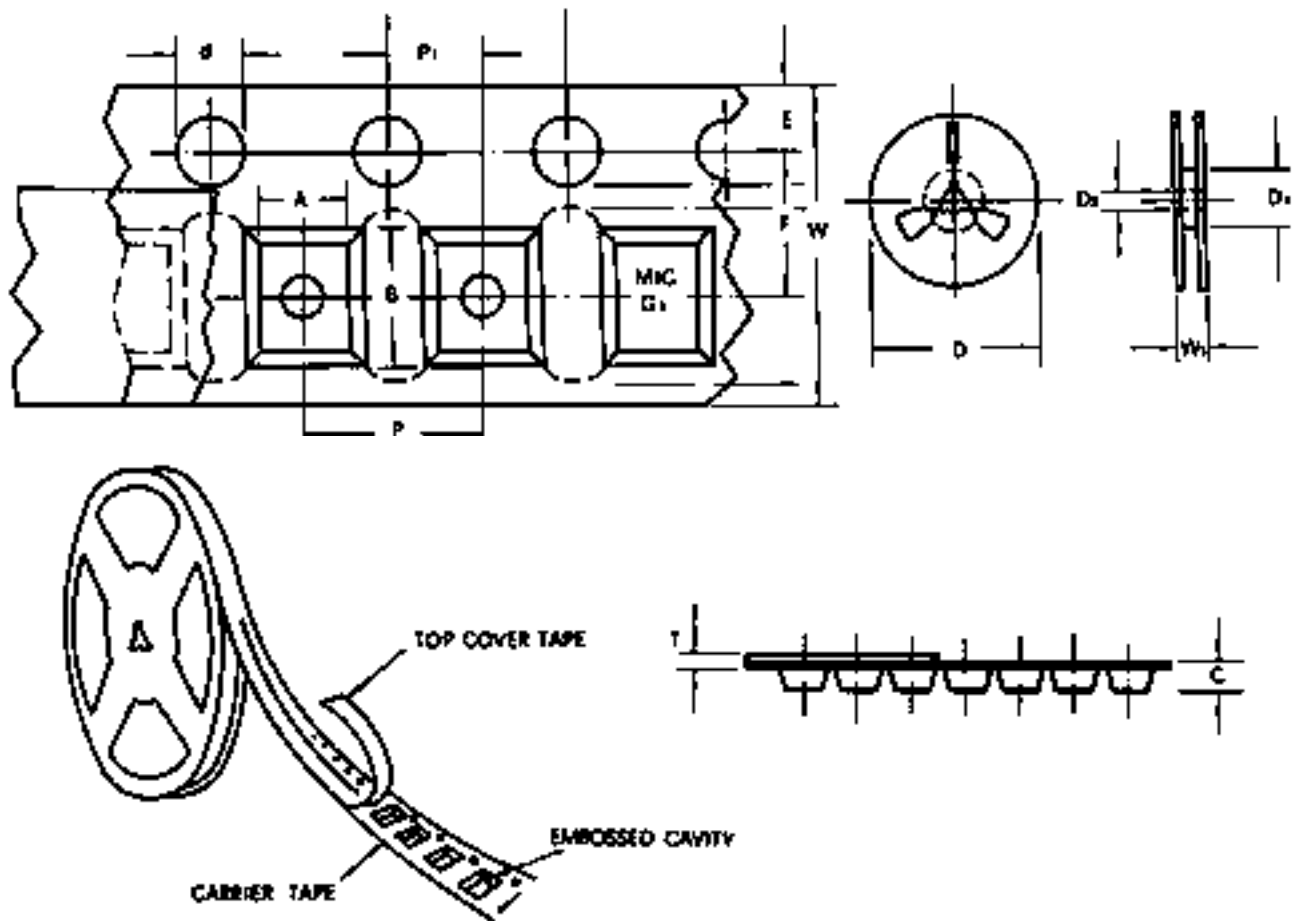


ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Component alignment	Z	1.2max	0.048max
Tape width	T	6.0 ± 0.4	0.236 ± 0.016
Exposed adhesive	E	0.8max	0.032max
Body eccentricity	L1-L2	1.0max	0.040max
Reel outside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7 ± 0.3	3.375 ± 0.012
Feed hole diameter	Do	16.6 ± 0.4	0.655 ± 0.016
Reel width	W	79.0 ± 1.0	3.110 ± 0.040

- NOTE:** 1. Each component lead shall be sandwiched between tapes for a minimum of 3.2mm(0.126")
 2. The reel width 'W' for 26mm taping is 50.0 ± 1.0mm(1.97" ± 0.040")

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REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES



ITEM	SYMBOL	SPECIFICATIONS(mm)	SPECIFICATIONS(inch)
Carrier width	A	2.9 max	0.115 max
Carrier length	B	4.5 max	0.179 max
Carrier depth	C	2.3 ± 0.4	0.090 ± 0.015
Sprocket hole	d	1.5 ± 0.1	0.059 ± 0.004
Reel outside diameter	D	178.0 ± 2.0min	7.00 ± 0.079min
Reel inner diameter	D1	50min	1.969min
Feed hole diameter	D2	13.0 ± 0.5	0.512 ± 0.020
Sprocket hole position	E	1.75 ± 0.1	0.069 ± 0.004
Punch hole position	F	5.5 ± 0.1	0.217 ± 0.004
Punch hole pitch	P	4.0 ± 0.1	0.157 ± 0.004
Sprocket hole pitch	Po	4.0 ± 0.1	0.157 ± 0.004
Embossment center	P1	2.0 ± 0.05	0.079 ± 0.002
Overall tape thickness	T	1.1max	0.043max
Tape width	W	12.0 ± 0.3	0.472 ± 0.012
Reel width	W1	15.5min	0.610min

NOTE: 1.Devices are packed in accordance with EIA standard RS-481-A and specifications given above. Available only for SM-A devices.
2.Available on 7 inch(1500 ct.)or 13 inch(5000 ct.) diameter reels.



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PACKAGING OF DIODE AND BRIDGE RECTIFIERS**BULK PACK**

PACKAGE	INNER SIZE (m/m)	BOX (EA)	CARTON SIZE (m/m)	CARTON (EA)	APPROX.GROSS WEIGHT(kg)
A-405	192x85x21	1,000	450x210x260	50,000	13.8
R-1	192x85x21	1,000	450x210x260	50,000	12.8
DO-41	192x85x21	1,000	450x210x260	50,000	19.8
DO-15	192x85x21	500	450x210x260	25,000	13.0
R-3	192x85x21	500	450x210x260	25,000	23.8
DO-27	300x77x39	500	450x300x270	12,000	17.2
R-6	300x77x39	200	450x300x270	4,800	12.8
DB-1	490x145x85	2,500	510x365x310	20,000	14.4
B-15/WOM/RC-2	235x185x63	1,000	395x270x435	10,000	RB: 15.2 WOB: 16.2 RC: 18.2
RS-2	200x160x42	600	460x232x210	7,200	12.4
BR-3	195x195x49	200	410x205x220	1,600	7.2
RS-4	265x213x50	400	458x225x278	3,200	22.7
BR-6	195x195x49	200	410x205x220	1,600	8.75
RS-6	265x213x50	400	458x225x278	3,200	28.25
RS-8	265x213x50	400	458x225x278	3,200	29.45
BR-8	225x225x45	200	460x232x210	1,600	12.6
MB/BR-25	195x195x49	50	410x205x220	400	MB: 14.8 BR25:10.4
MB/BR-25W	195x195x49	50	410x205x220	400	MBW: 13.6 BR25W:9.2
HV	225x225x40	100	451x205x254	1,000	11.6
HC	207x207x53	40	451x205x254	320	10.2
HVP	207x207x53	40	451x205x254	320	11.8
TO-220	555x155x95	2,000	570x320x220	8,000	24.0
TO-3P	555x155x95	750	570x320x220	3,000	25.8

REEL PACK

PACKAGE	REEL (EA)	COMPONENT SPACE (m/m)	TAPE SPACE (m/m)	REEL DIA (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX. GROSS WEIGHT (KG)
A-405	5,000	5.0	51	330	350x340x340	20,000	8.5
R-1	5,000	5.0	51	330	350x340x340	20,000	8.8
DO-41	5,000	5.0	51	330	350x340x340	20,000	10.5
DO-15	4,000	5.0	51	330	350x340x340	16,000	10.0
R-3	3,000	5.0	51	330	350x340x340	12,000	12.5
DO-27	1,250	9.5	51	330	350x340x340	5,000	9.5
R-6	500	9.5	51	330	350x340x340	2,000	7.5

AMMUNITION PACK

PACKAGE	BOX (EA)	COMPONENT SPACE (m/m)	TAPE SPACE (m/m)	BOX SIZE (m/m)	CARTON SIZE (m/m)	CARTON (EA)	APPROX GROSS WEIGHT (KG)
A-405	2,500	5.0	51	245x75x90	480x260x300	45,000	13.9
R-1	2,500	5.0	51	245x75x90	480x260x300	45,000	10.6
DO-41	2,500	5.0	51	245x75x90	480x260x300	45,000	13.9
DO-15	1,500	5.0	51	245x75x90	480x260x300	27,000	14.5
R-3	1,500	5.0	51	245x75x90	480x260x300	27,000	20.5
DO-27	500	9.5	51	245x75x90	480x260x300	14.2	
R-6>	250	9.5	51	245x75x90	480x260x300	4,500	2.8
R-1	2,500	5.0	26	241x47x95	320x270x310	45,000	16.5
DO-41	2,500	5.0	26	241x47x95	320x270x310	45,000	16.5
DO-15	1,500	5.0	26	241x47x95	320x270x310	27,000	10.5

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