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KBPC10,15,25,35,50 SERIES

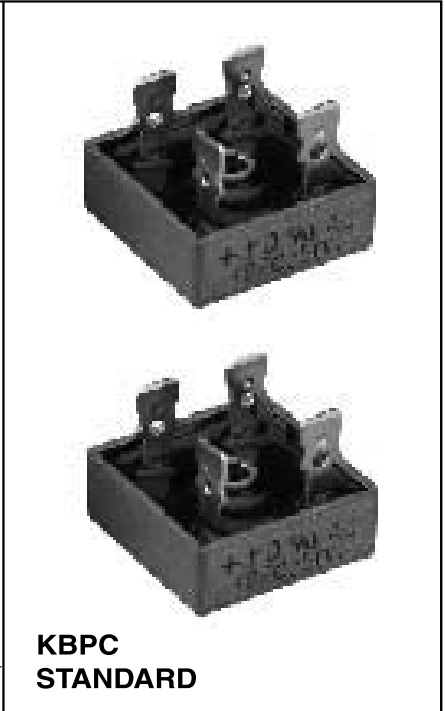
SILICON BRIDGE RECTIFIERS

FEATURES

- Integrally molded heatsinks provide very low thermal resistance for maximum
- Surge overload rating: 400 amperes.
- Terminals either universal .25 [6.35mm] FASTON or wire leads.
- High temperature soldering guaranteed: 265 °C / seconds/ 5lbs., [2.3kg] tension.

MECHANICAL DATA

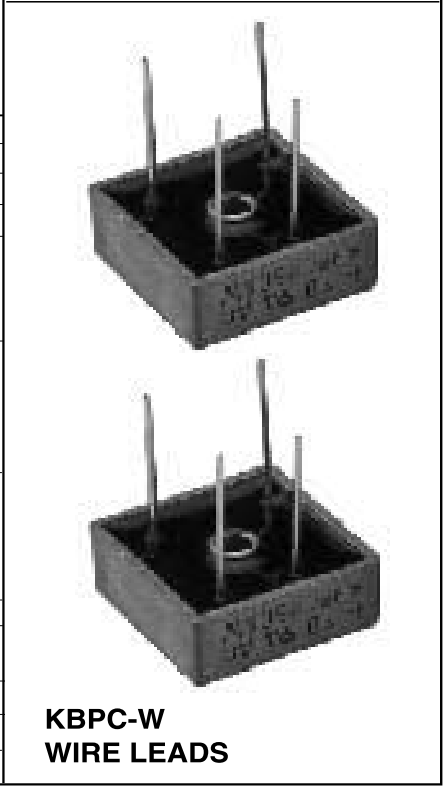
Case : metal or molded plastic with heatsink integrally mounted in the bridge encapsulation.
 Suffix letter "P" added to indicate plastic.
 Terminals :Either plated .25" [6.35mm] FASTON or plated copper leads .040" [1.02mm] diameter.
 Suffix letter "W" added to indicate leads.
 Weight: 31 grams.
 Mounting position : bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
 Mounting Torque : 20 in.lb. max.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave,60Hz, resistive or inductive load 60Hz.
 For capacitive load, derate current by 20%.

RATINGS		-00	-01	-02	-04	-06	-08	-10	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified output current at Tc = 55°C	KBPC10 KBPC15 KBPC25 KBPC35 KBPC50				10 15 25 35 50				A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC Method)	KBPC10 KBPC15 KBPC25 KBPC35 KBPC50				200 300 300 400 400				A
Maximum Instantaneous Forward Voltage per Bridge Element at Specified Current	KBPC10 KBPC15 KBPC25 KBPC35 KBPC50	IF		5A 7.5A 12.5A 17.5A 25A		1.0			V
Isolation Voltage From case to leads					2500				V
Maximum DC Reverse Current at Rated DC Blocking voltage per element					10.0				μA
Maximum Thermal Resistance θ J-C (Note)					1.2				°C/W
Operating Temperature Range TA					-65 to +125				°C
Storage Temperature Range TSTG					-65 to +150				°C



NOTE : Thermal Resistance from junction to Case for total bridge



RATING AND CHARACTERISTIC CURVES KBPC10,15,25,35,50,SERIES

FIG. 1-MAXIMUM FORWARD SURGE CURRENT

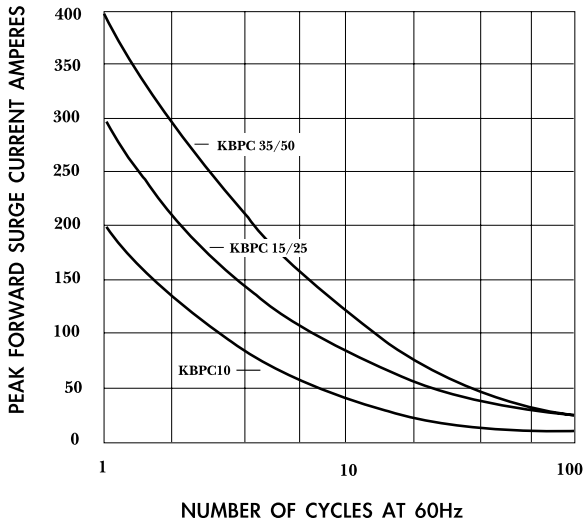


FIG. 2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

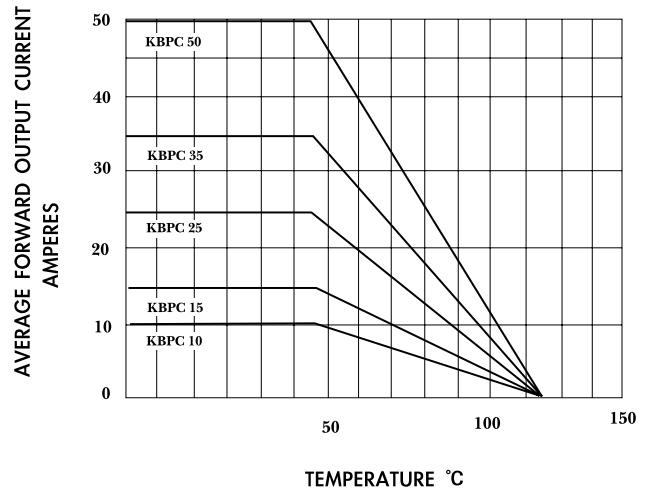


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

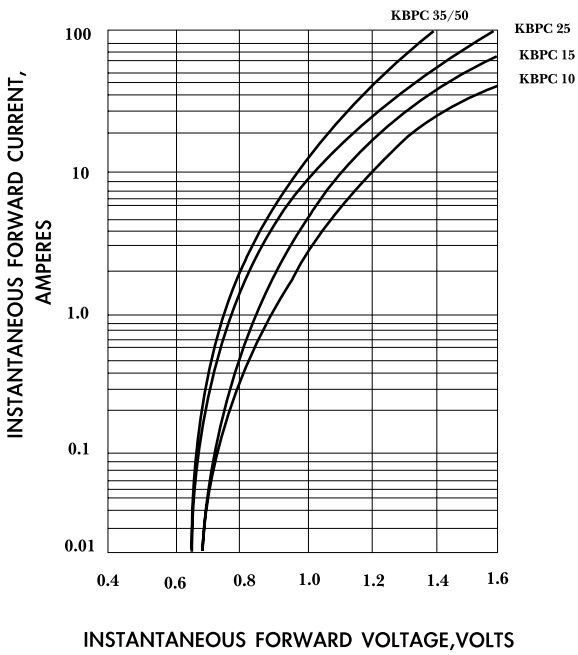
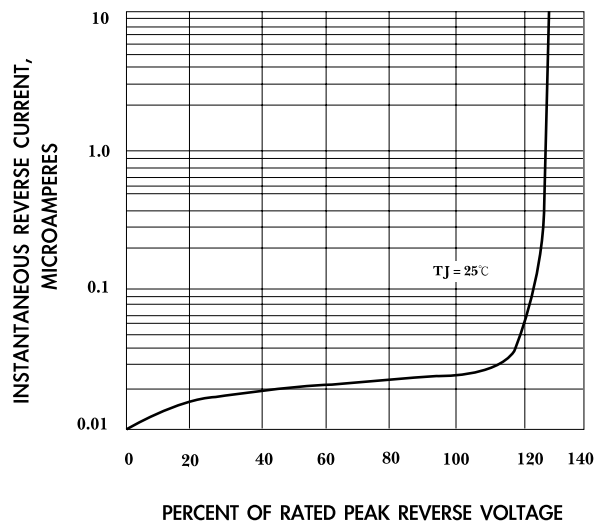
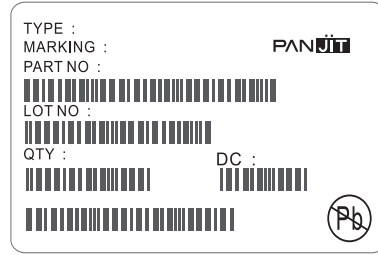
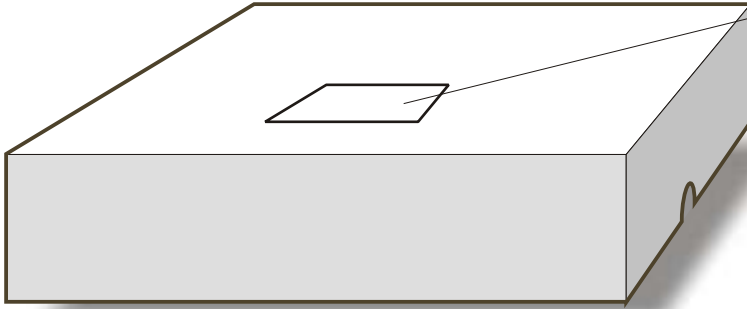


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

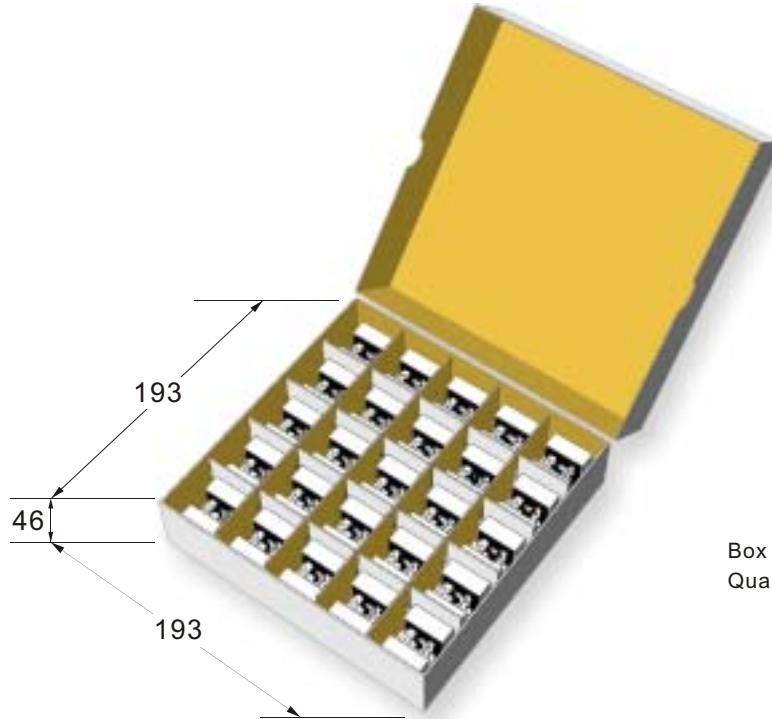


LABEL

LABEL TYPE



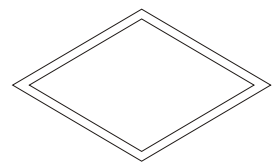
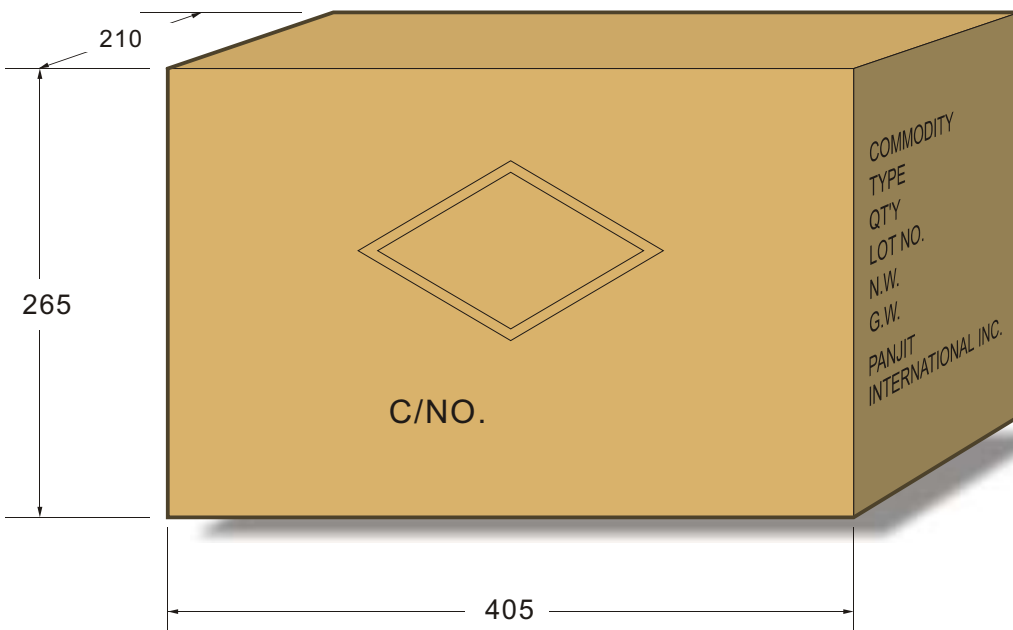
BOX



Box Dimensions : mm
Quantity per Box: 50pcs

CARTON

SHIPPING MARK



C/NO.
PRODUCT COUNTRY

SIDE MARK

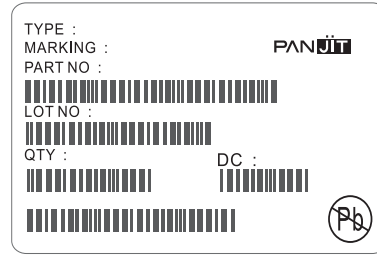
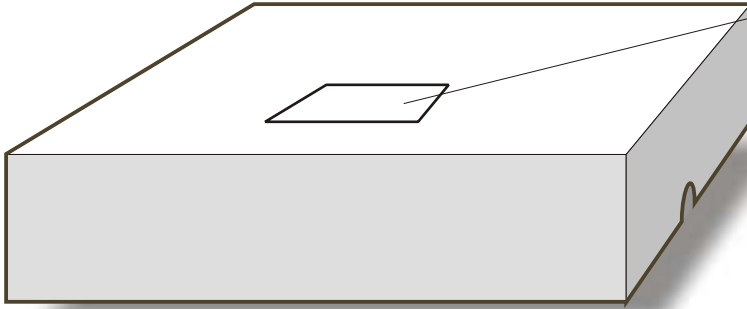
COMMODITY:
TYPE:
Q'TY:
LOT NO.
N.W.
G.W.

PANJIT
INTERNATIONAL INC.

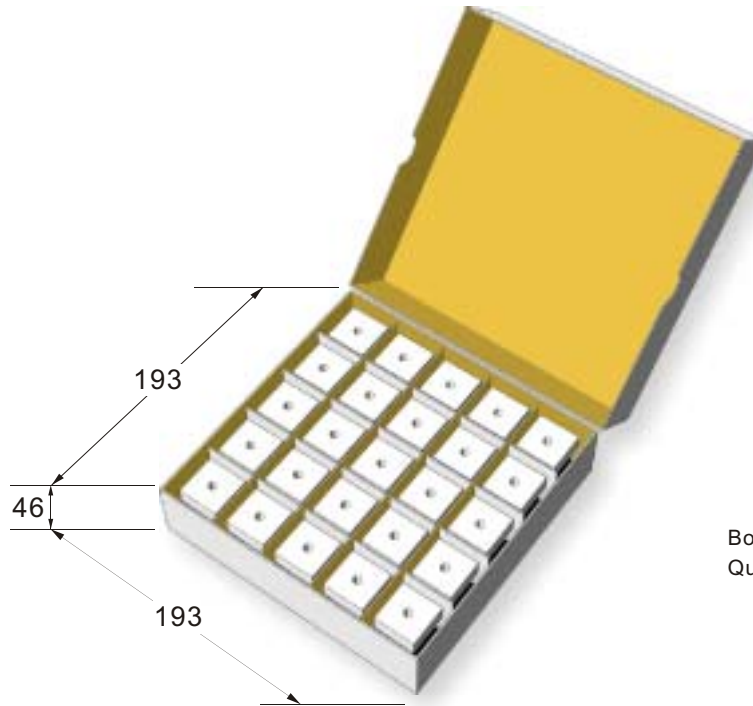
Carton Dimensions : mm
Quantity per Box: 500pcs

LABEL

LABEL TYPE



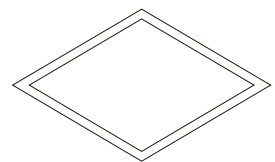
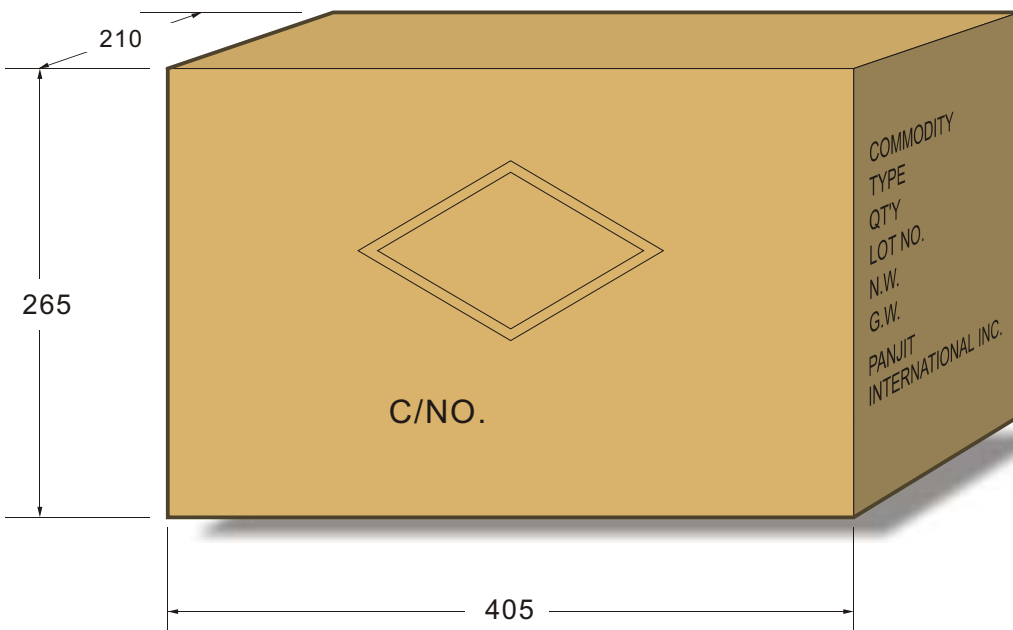
BOX



Box Dimensions : mm
Quantity per Box: 50pcs

CARTON

SHIPPING MARK



C/NO.
PRODUCT COUNTRY

SIDE MARK

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

Carton Dimensions : mm
Quantity per Box: 500pcs



Bulk Packing

PACKAGE	INNER SIZE	BOX	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(m/m)	(EA)	(m/m)	(EA)	(Kg)
Bulk Packing					
A-405	198 x 84 x 20	10,000	459 x 214 x 256	50,000	18.2
AG / RB-20 / WOB	258x190x77	1,000	395x270x400	10,000	17.0
AM	260 x 190 x 80	1,000	400 x 273 x 415	10,000	15
CM / KBPC	193 x 193 x 46	50	405 x 210 x 265	500	18
CMW / KBPC-W	193 x 193 x 46	50	405 x 210 x 265	500	16.5
KBPC-P / CP-15/25/35/50	193 x 193 x 46	50	405 x 210 x 265	500	14.5
KBPC-PW / CPW-15/25/35/50	193 x 193 x 46	50	405 x 210 x 265	500	13
CP-3 / 6	260 x 190 x 80	400	400 x 273 x 415	4,000	8.5
CP-8 / 10	260 x 190 x 80	250	400 x 273 x 415	2,500	14
DIP	-	-	495 x 214 x 256	12,000	8.8
DO-15	200 x 85 x 25	1,000	459 x 214 x 256	40,000	17
DO-201AD	200 x 85 x 40	500	495 x 214 x 256	12,500	15.8
DO-201AE	200 x 85 x 40	500	495 x 214 x 256	12,500	15.8
DO-34	96 x 80 x 42	2,000	410 x 335 x 265	120,000	12
DO-35	96 x 80 x 42	2,000	410 x 335 x 265	120,000	13.8
DO-41	240 x 100 x 90	5,000	410 x 335 x 265	60,000	20
DO-41G	96 x 80 x 42	1,000	410 x 335 x 265	60,000	20
FL	270 x 225 x 50	500	463 x 283 x 185	3,000	18.2
GBJ	352 x 337 x 44	600	375 x 360 x 213	2,400	25.4
GBL	350 x 337 x 44	960	375 x 360 x 213	3,840	13.1
GBP	350 x 337 x 44	1,120	375 x 360 x 213	4,480	10.7
GBPC	195 x 195 x 40	50	460 x 215 x 260	500	14.5
GBPCW	195 x 195 x 40	50	460 x 215 x 260	500	13
GBU	350 x 337 x 44	800	375 x 360 x 213	3,200	17
GL	195 x 195 x 40	80	460 x 215 x 260	800	11
GPJ	500 x 150 x 145	750	572 x 306 x 218	1,500	17
KBJ	219 x 177 x 44	200	367 x 232 x 250	2,000	16.3
KBPM	490 x 150 x 110	1,200	510 x 335 x 240	4,800	19
KBU	270 x 225 x 50	200	463 x 283 x 185	1,200	10
MDI	350 x 337 x 44	6,000	375 x 360 x 390	48,000	14.4
P-600	208 x 90 x 83	500	495 x 214 x 256	5,000	11.9
R-1	198 x 84 x 20	1,000	495 x 214 x 256	50,000	18.2
SDIP	-	-	495 x 214 x 256	24,000	16.8
TO / ITO-220	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19
TO-251AB	560 x 210 x 79	8,400	572 x 306 x 218	33,600	22
TO-247AD	-	-	536 x 243 x 100	1,500	13.2
KBP	258x190x77	1,000	395x270x400	10,000	18.0
KBL	230x147x50	200	460x245x275	3,000	17.25
K3 / K6	210x115x90	200	600x235x198	2,000	7.3/8.8
K8	210x115x90	200	600x235x198	2,000	13.8
K10/K15/K25/K35/K50M	193x193x46	50	405x210x265	500	17.0
K10/K15/K25/K35/K50P	193x193x46	50	405x210x265	500	17.0
K10/K15/K25/K35/K50W	193x193x46	50	405x210x265	500	17.0



Reel Packing

PACKAGE	REEL	COMPONENT SPACE	TAPE SPACE	REEL DIA	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Reel Packing							
A-405	5,000	5	52	330	340 x 340 x 410	25,000	11.3
TO-263	800	16	24	330	375 x360 x 390	6,400	15
DO-15	4,000	5	52	330	340 x 340 x 410	20,000	11
DO-201AD	1,250	10	52	330	340 x 340 x 410	6,250	9.2
DO-201AE	1,250	10	52	330	340 x 340 x 410	6,250	9.2
DO-34	10,000	5	52	360	360 x 360 x 395	50,000	9.5
DO-35	10,000	5	52	360	360 x 360 x 395	50,000	12
DO-41	5,000	5	52	330	360 x 360 x 395	25,000	13
DO-41G	5,000	5	52	360	360 x 360 x 395	25,000	13
TO-252	3,000	8	16	330	375 x 360 x 390	42,000	20.2
MDI	3,000	8	12	330	375 x360 x 390	48,000	14.4
QUADRO-MELF	2,500	4	-	178	385 x 380 x 260	200,000	13.5
MELF/DL-41	5,000	4	-	330	350 x 350 x 300	100,000	14
MICRO-MELF	2,500	4	-	178	385 x 380 x 260	200,000	13.5
MINI-MELF	10,000 / 2,500	4	-	330 / 178	360 x 360 x 395 / 385 x 380 x 260	200,000	14.0 / 13.5
P-600	800	10	52	330	340 x 340 x 410	4,000	11
QFN 1.6 x 1.6	4,000	4	8	178	390 x 240 x 420	200,000	7.8
R-1	5,000	5	52	330	340 x 340 x 410	25,000	6.3
SDIP	1,500	12	16	330	375 x360 x 390	21,000	16.3
SMA	7,500 / 1,800	4	12	330 / 178	375 x360 x 390 / 390 x 240 x 420	120,000 / 72,000	17.5 / 10
SMB	3,000 / 500	8	12	330 / 178	375 x360 x 390 / 390 x 240 x 420	48,000 / 20,000	13.6 / 7.5
SMC	3,000 / 500	12	16	330 / 178	375 x360 x 390 / 390 x 240 x 420	42,000 / 15,000	6.2 / 7.3
SOD-123	10,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	120,000 / 240,000	6.4 / 9.4
SOD-123FL	10,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	120,000 / 240,000	6.4 / 9.4
SOD-323	12,000 / 5,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 400,000	10 / 15.2
SOT-23	12,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 240,000	6.4 / 9.4
SOT-323	12,000 / 3,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 240,000	6.4 / 9.4
SOT-363	10,000 / 3,000	4	8	330 / 178	735 x 365 x 292 / 390 x 240 x 420	300,000 / 150,000	15.66 / 7.0
SOT-353	10,000 / 3,000	4	8	330 / 178	735 x 365 x 292 / 390 x 240 x 420	300,000 / 150,000	15.66 / 7.0
TO-92	2,000	-	-	335	390 x 390 x 280	8,000	6.067
SOD-523	12,000 / 5,000	4	8	330 / 178	375 x 360 x 213 / 390 x 270 x 400	144,000 / 400,000	10 / 15.2
QFN 2.0 x 2.0	5,000 / 3,000 / 1,000	4	8	330 / 178 / 178	553 x 365 x 358 / 333 x 240 x 257 / 333 x 240 x 257	45,000 / 39,000 / 13,000	4.5 / 3.0 / 2.5
SOT23-6L	3,000 / 2,500 / 1,000	4	8	330 / 178 / 178	553 x 365 x 358 / 333 x 240 x 257 / 333 x 240 x 257	39,000 / 32,500 / 13,000	3.0 / 3.0 / 2.5
SOIC-08	3,000 / 1,500 / 1,000	4	8	330 / 330 / 178	553 x 365 x 358 / 553 x 365 x 358 / 333 x 240 x 257	39,000 / 13,500 / 13,000	6.5 / 5.0 / 3.5



Ammunition Packing

PACKAGE	AMMO	COMPONENT SPACE	TAPE SPACE	BOX SIZE	CARTON SIZE	CARTON	APPROX. GROSS WEIGHT
	(pcs)	(m/m)	(m/m)	(m/m)	(m/m)	(EA)	(Kg)
Ammunition Packing							
A-405	5,000	5	26	255 x 50 x 150	339 x 276 x 330	60,000	16.0
A-405	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16.0
DO-15	3,000	5	52	255 x 75 x 150	339 x 276 x 330	24,000	11.9
DO-201AD	1,250	10	52	255 x 75 x 150	339 x 276 x 330	10,000	14.0
DO-201AE	1,250	10	52	255 x 75 x 150	339 x 276 x 330	10,000	14.0
DO-34	5,000	5	26	248 x 80 x 48	410 x 335 x 265	150,000	15.5
DO-34	5,000	5	52	248 x 80 x 75	410 x 335 x 265	100,000	14.1
DO-35	5,000	5	26	248 x 80 x 48	410 x 335 x 265	150,000	20.0
DO-35	5,000	5	52	248 x 80 x 75	410 x 335 x 265	100,000	15.7
DO-41	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	19.1
DO-41G	2,500	5	26	248 x 80 x 48	410 x 335 x 265	75,000	21.5
DO-41G	2,500	5	52	248 x 80 x 75	410 x 335 x 265	50,000	19.0
P-600	400	10	52	255 x 75 x 150	339 x 276 x 330	3,200	9.0
R-1	5,000	5	26	255 x 50 x 150	339 x 276 x 330	40,000	11.0
R-1	5,000	5	52	255 x 75 x 150	339 x 276 x 330	40,000	16.0