



semitron hot line

TOLL FREE NUMBER 800-777-3960

T-23-05
T-23-07

discrete devices

BRIDGE RECTIFIERS

OPERATING TEMPERATURE RANGE: -55°C to +125°C
STORAGE TEMPERATURE RANGE: -55°C to +150°C

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

1.0 AMPERES/RS-1/KBP

KBP005 To KBP10/3N246 To 3N252

SESR101	50	1.0	50	30	10.0	1.0	1.0
SESR102	100	1.0	50	30	10.0	1.0	1.0
SESR103	200	1.0	50	30	10.0	1.0	1.0
SESR104	400	1.0	50	30	10.0	1.0	1.0
SESR105	600	1.0	50	30	10.0	1.0	1.0
SESR106	800	1.0	50	30	10.0	1.0	1.0
SESR107	1000	1.0	50	30	10.0	1.0	1.0



1.5 AMPERES/WOM

W005M To W10M

SESW005M	50	1.5	25	50	10.0	1.0	1.0
SESW01M	100	1.5	25	50	10.0	1.0	1.0
SESW02M	200	1.5	25	50	10.0	1.0	1.0
SESW04M	400	1.5	25	50	10.0	1.0	1.0
SESW06M	600	1.5	25	50	10.0	1.0	1.0
SESW08M	800	1.5	25	50	10.0	1.0	1.0
SESW10M	1000	1.5	25	50	10.0	1.0	1.0



2.0 AMPERES/RS-2/2KBP

2KBP005 To 2KBP10/3N253 To 3N259

SESR805D	50	2.0	75	50	10.0	1.0	1.0
SESR81D	100	2.0	75	50	10.0	1.0	1.0
SESR82D	200	2.0	75	50	10.0	1.0	1.0
SESR84D	400	2.0	75	50	10.0	1.0	1.0
SESR86D	600	2.0	75	50	10.0	1.0	1.0
SESR88D	800	2.0	75	50	10.0	1.0	1.0
SESR810D	1000	2.0	75	50	10.0	1.0	1.0



3.0 AMPERES/BR-3/KBPC 1

KBPC 1005 To KBPC 110

SESR305	50	3.0	*75	50	10.0	1.5	1.0
SESR31	100	3.0	*75	50	10.0	1.5	1.0
SESR32	200	3.0	*75	50	10.0	1.5	1.0
SESR34	400	3.0	*75	50	10.0	1.5	1.0
SESR36	600	3.0	*75	50	10.0	1.5	1.0
SESR38	800	3.0	*75	50	10.0	1.5	1.0
SESR310	1000	3.0	*75	50	10.0	1.5	1.0

*Heat Sink Temperature



4.0 AMPERES/RS-4/KBL

KBL005 To KBL10

SESR401	50	4.0	50	200	10.0	3.0	1.0
SESR402	100	4.0	50	200	10.0	3.0	1.0
SESR403	200	4.0	50	200	10.0	3.0	1.0
SESR404	400	4.0	50	200	10.0	3.0	1.0
SESR405	600	4.0	50	200	10.0	3.0	1.0
SESR406	800	4.0	50	200	10.0	3.0	1.0
SESR407	1000	4.0	50	200	10.0	3.0	1.0

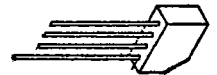


6.0 AMPERES/RS-6/KBU

KBU6A, B, D, G, J, K, M

SESR601A	50	6.0	*50	200	10.0	3.0	1.0
SESR602B	100	6.0	*50	200	10.0	3.0	1.0
SESR603D	200	6.0	*50	200	10.0	3.0	1.0
SESR604G	400	6.0	*50	200	10.0	3.0	1.0
SESR605J	600	6.0	*50	200	10.0	3.0	1.0
SESR606K	800	6.0	*50	200	10.0	3.0	1.0
SESR607M	1000	6.0	*50	200	10.0	3.0	1.0

*Heat Sink Temperature





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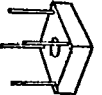
TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60 Hz		Maximum Forward Peak Surge Current @ 8.3 ms Super Imposed	Maximum Reverse Current @ PRV @ 25°C _T A	Maximum Forward Voltage @ 25°C _T A	
	PRV	I _o @T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	uA _{dc}	A _{PK}	V _{PK}

6.0 AMPERES/BR-6/KBPC6

KBPC6005 To KBPC610

SESBR605	50	6.0	*75	200	10.0	3.0	1.0
SESBR61	100	6.0	*75	200	10.0	3.0	1.0
SESBR62	200	6.0	*75	200	10.0	3.0	1.0
SESBR64	400	6.0	*75	200	10.0	3.0	1.0
SESBR66	600	6.0	*75	200	10.0	3.0	1.0
SESBR68	800	6.0	*75	200	10.0	3.0	1.0
SESBR610	1000	6.0	*75	200	10.0	3.0	1.0

*Heat Sink Temperature

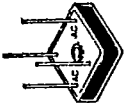


8.0 AMPERES/BR-8/KBPC8

KBPC8005 To KBPC810

SESBR805	50	8.0	*75	200	10.0	4.0	1.1
SESBR81	100	8.0	*75	200	10.0	4.0	1.1
SESBR82	200	8.0	*75	200	10.0	4.0	1.1
SESBR84	400	8.0	*75	200	10.0	4.0	1.1
SESBR86	600	8.0	*75	200	10.0	4.0	1.1
SESBR88	800	8.0	*75	200	10.0	4.0	1.1
SESBR810	1000	8.0	*75	200	10.0	4.0	1.1

*Heat Sink Temperature



10.0 AMPERES/BR-8/KBPC10

KBPC10005 To KBPC1010

SESBR1005	50	10.0	*50	200	10.0	5.0	1.2
SESBR101	100	10.0	*50	200	10.0	5.0	1.2
SESBR102	200	10.0	*50	200	10.0	5.0	1.2
SESBR104	400	10.0	*50	200	10.0	5.0	1.2
SESBR106	600	10.0	*50	200	10.0	5.0	1.2
SESBR108	800	10.0	*50	200	10.0	5.0	1.2
SESBR1010	1000	10.0	*50	200	10.0	5.0	1.2

*Heat Sink Temperature



15.0 AMPERES/BR-25/KBPC 15

KBPC150005 To KBPC1510

SESBR1505	50	15.0	*75	400	10.0	7.5	1.1
SESBR151	100	15.0	*75	400	10.0	7.5	1.1
SESBR152	200	15.0	*75	400	10.0	7.5	1.1
SESBR154	400	15.0	*75	400	10.0	7.5	1.1
SESBR156	600	15.0	*75	400	10.0	7.5	1.1
SESBR158	800	15.0	*75	400	10.0	7.5	1.1
SESBR1510	1000	15.0	*75	400	10.0	7.5	1.1

*Heat Sink Temperature



25.0 AMPERES/MB-25/KBPC25

KBPC25005 To KBPC2510

SESMB2505	50	25.0	*100	400	10.0	12.5	1.2
SESMB251	100	25.0	*100	400	10.0	12.5	1.2
SESMB252	200	25.0	*100	400	10.0	12.5	1.2
SESMB254	400	25.0	*100	400	10.0	12.5	1.2
SESMB256	600	25.0	*100	400	10.0	12.5	1.2
SESMB268	800	25.0	*100	400	10.0	12.5	1.2
SESMB2510	1000	25.0	*100	400	10.0	12.5	1.2

*Heat Sink Temperature



35.0 AMPERES/MB-35/KBPC35

KBPC35005 To KBPC3510

SESMB3505	50	35.0	*80	400	10.0	17.5	1.2
SESMB351	100	35.0	*80	400	10.0	17.5	1.2
SESMB352	200	35.0	*80	400	10.0	17.5	1.2
SESMB354	400	35.0	*80	400	10.0	17.5	1.2
SESMB356	600	35.0	*80	400	10.0	17.5	1.2
SESMB358	800	35.0	*80	400	10.0	17.5	1.2
SESMB3510	1000	35.0	*80	400	10.0	17.5	1.2

*Heat Sink Temperature



case outline drawings

TO1

TO3

TO5

TO18

TO33

TO36

TO39

TO46

TO59

TO61

TO63

TO66

TO72

TO92

F8

Y220/TO220

NOTES:

1. Refer to rules for dimensioning semiconductor product outlines included in Publication No. 76.
2. Figure "A", Axial Terminal Configuration, applicable.
3. Figure "B", Peripheral Terminal Configuration, applicable.
4. Alternate lead configurations allowed within C and D.
5. Tab contour optional within M and P.
6. Chamfer optional.
7. Position of lead to be measured .050 - .055 below seating plane.
8. Position of lead to be measured .250 - .325 from bottom of dimension E.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	NOTES
Y220n/	.140	.045	.020	.012	.840	.340				.180	.040	.530	.040				.050	.340	.127	.100	.580	2
TO220AA	.180	.075	.045	.045	.885	.420				.210	.055	.370	.115									
Y220D	.140	.045	.020	.012	.840	.340				.180	.040	.530	.040									
TO220AB	.180	.075	.045	.045	.885	.420				.210	.055	.370	.115									3
TO220C	.180	.075	.045	.045	.885	.420				.210	.055	.370	.115									

