

# Silicon Rectifiers

SEMICON PART NUMBER	PIV	RMS	Peak One Cycle Surge Sine-Wave 60 CPS	Max. Forward Voltage 25°C Ambient D.C.	Max. Leakage Current (I <sub>R</sub> ) @ (V <sub>R</sub> ) 25°C Ambient D.C.	Max. Peak Recurrent Forward Current @ 25°C Ambient	Typical Forward Voltage Drop 25°C Ambient D.C.
	(Volts)	(Volts)	(Amps.)	(Volts)	( $\mu$ Amps.)	(Amps.)	(Volts)
<b>S CASE—Metal, Hermetic Seal, Stud Mounted ① ④ ⑤</b>							
5 Amp. @ 150°C ambient			5 Amp.			5 Amp.	
1N1612	50	35	150	1.1	5	30	.97
1N1613	100	70	150	1.1	5	30	.97
1N1614	200	140	150	1.1	5	30	.97
SL3	300	210	150	1.1	5	30	.97
1N1615	400	280	150	1.1	5	30	.97
SL5	500	350	150	1.1	5	30	.97
1N1616	600	420	150	1.1	5	30	.97
SL8	800	560	150	1.1	5	30	.97
SL10	1000	700	150	1.1	5	30	.97
<b>S CASE—Metal, Hermetic Seal, Stud Mounted ① ④ ⑤</b>							
6 Amp. @ 150°C ambient			6 Amp.			6 Amp.	
1N1341B	50	35	150	1.2	5	30	.98
1N1342B	100	70	150	1.2	5	30	.98
1N1344B	200	140	150	1.2	5	30	.98
1N1345B	300	210	150	1.2	5	30	.98
1N1346B	400	280	150	1.2	5	30	.98
1N1347B	500	350	150	1.2	5	30	.98
1N1348B	600	420	150	1.2	5	30	.98
SL800X	800	560	150	1.2	5	30	.98
SL1000X	1000	700	150	1.2	5	30	.98
<b>S CASE—METAL. Hermetic Seal, Stud Mounted ① ③ ⑤</b>							
10 Amp. @ 25°C ambient			10 Amp.			10 Amp.	
1N2246A	50	35	200	1.2	5	6	.98
1N2248A	100	70	200	1.2	5	6	.98
1N2250A	200	140	200	1.2	5	6	.98
1N2252A	300	210	200	1.2	5	6	.98
1N2254A	400	280	200	1.2	5	6	.98
1N2256A	500	350	200	1.2	5	6	.98
1N2258A	600	420	200	1.2	5	6	.98
1N2260A	800	560	200	1.2	5	6	.98
1N2262A	1000	700	200	1.2	5	6	.98
<b>S CASE—METAL. Hermetic Seal, Stud Mounted ① ③ ⑤</b>							
12.0 Amp. @ 150°C ambient			12 Amp.			12 Amps.	
1N1199A	50	35	250	1.3	5	40	1.15
1N1200A	100	70	250	1.3	5	40	1.15
1N1202A	200	140	250	1.3	5	40	1.15
1N1203A	300	210	250	1.3	5	40	1.15
1N1204A	400	280	250	1.3	5	40	1.15
1N1205A	500	350	250	1.3	5	40	1.15
1N1206A	600	420	250	1.3	5	40	1.15
SL800	800	560	250	1.3	5	40	1.15
SL1000	1000	700	250	1.3	5	40	1.15
<b>HC CASE—Metal, Hermetic Seal, Axial Lead, Normal Polarity: Cathode to Case ④ ⑤ ⑧</b>							
2.0 Amp. @ 75°C ambient			2 Amps.			2 Amps.	
HB50	50	35	200	1.0	5	15	.97
HB100	100	70	200	1.0	5	15	.97
HB200	200	140	200	1.0	5	15	.97
HB300	300	210	200	1.0	5	15	.97
HB400	400	280	200	1.0	5	15	.97
HB500	500	350	200	1.0	5	15	.97
HB600	600	420	200	1.0	5	15	.97
HB800	800	560	200	1.0	5	15	.97
HB1000	1000	700	200	1.0	5	15	.97

- NOTES: 1. Add suffix "R" for Reverse Polarity.  
 2. Furnished with mounting hardware.  
 3. Operating and Storage Temperature: absolute maximum limits  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  case.  
 4. Operating and Storage Temperature: absolute maximum limits  $-65^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$  case.  
 5. Refer to page 8 for derating curve.  
 6. Current Rating is based on connecting one lead to 3" x 3" x .062" copper or equivalent heat sink @ 25°C Ambient.  
 7. Normal Polarity: Cathode to Stud; Add suffix "R" for Reverse Polarity.  
 8. Available as Single Ended Unit. See HC<sub>1</sub> Diagram, back page.  
 9. Operating and Storage Temperature: absolute maximum limits  $-65^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  case.  
 \* See back page for case dimensions.