



# DIODES

## Small-Signal Schottky and Switching Diodes

### Available in Surface-Mount and Leaded Packages



#### FEATURED PACKAGES

DO-35

MicroMELF

MiniMELF SOD-80

QuadroMELF SOD-80

SOD-123

SOD-323

SOD-523

SOT-23

#### RESOURCES

- For further information on Small-Signal Schottky Diodes visit: <http://www.vishay.com/diodes/ss-schottky>
- For further information on Small-Signal Switching Diodes visit: <http://www.vishay.com/diodes/switching>
- For technical questions, contact [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com), [DiodesAmericas@vishay.com](mailto:DiodesAmericas@vishay.com), [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com)

One of the World's Largest Manufacturers of  
Discrete Semiconductors and Passive Components





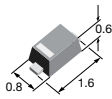
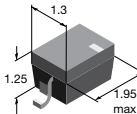
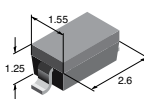
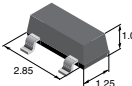




## DIODES

## Small-Signal Schottky and Switching Diodes

Diodes - Focus Products for Multi-Market Applications




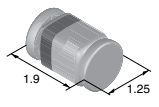
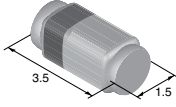
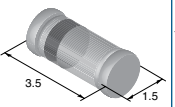
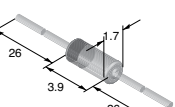
Schottky Diodes						Surface-Mount			
$V_{RRM}$ (V)	$I_F$ (mA)	$V_F$ max @ $I_F$		$V_F$ max @ $I_F$		 SOD-523	 SOD-323	 SOD-123	 SOT-23 Series
		(V)	(mA)	(V)	(mA)				
20	200	0.37	20	0.6	200		<a href="#">SD103CWS</a> <a href="#">SD103CWS-G</a>	<a href="#">SD103CW</a> <a href="#">SD103CW-G</a>	
30	200	0.32	1.0	0.4	10				
30	200	0.33	2	0.45	15		<a href="#">BAT43WS</a> <a href="#">BAT43WS-G</a>	<a href="#">BAT43W</a> <a href="#">BAT43W-G</a>	
30	200	0.4	10	0.5	30	<a href="#">BAT54-02V-V-G</a>	<a href="#">BAT54WS</a> <a href="#">BAT54WS-G</a>	<a href="#">BAT54W</a> <a href="#">BAT54W-G</a>	<a href="#">BAT54</a> <a href="#">BAT54-G</a>
30	200	0.4	10	0.65	50		<a href="#">BAT42WS</a> <a href="#">BAT42WS-G</a>	<a href="#">BAT42W</a> <a href="#">BAT42W-G</a>	
30	200	0.37	20	0.6	200		<a href="#">SD103BWS</a> <a href="#">SD103BWS-G</a>	<a href="#">SD103BW</a> <a href="#">SD103BW-G</a>	
30	200	0.32	1.0	0.6	200				
40	30	0.33	0.1	0.41	1.0				
40	30	0.37	1.0	0.37	1.0	<a href="#">BAS581-02V-V-G</a>			
40	30	0.39	1.0	0.9	15		<a href="#">SD101CWS</a> <a href="#">SD101CWS-G</a>	<a href="#">SD101CW</a> <a href="#">SD101CW-G</a>	
40	200	0.38	1.0	1.0	40	<a href="#">BAS40-02V-V-G</a>			<a href="#">BAS40</a> <a href="#">BAS40-G</a>
40	200	0.37	20	0.6	200		<a href="#">SD103AWS</a> <a href="#">SD103AWS-G</a>	<a href="#">SD103AW</a> <a href="#">SD103AW-G</a>	
50	30	0.33	0.1	0.41	1.0				
50	30	0.4	1.0	0.95	15		<a href="#">SD101BWS</a> <a href="#">SD101BWS-G</a>	<a href="#">SD101BW</a> <a href="#">SD101BW-G</a>	
50	200	0.38	1.0	0.45	10				
60	30	0.33	0.1	0.41	1.0				
60	30	0.41	1.0	1.0	15		<a href="#">SD101AWS</a> <a href="#">SD101AWS-G</a>	<a href="#">SD101AW</a> <a href="#">SD101AW-G</a>	
70	200	0.41	1.0	1.0	15	<a href="#">BAS70-02V-V-G</a>	<a href="#">BAS170WS</a> <a href="#">BAS170WS-G</a>		<a href="#">BAS70</a> <a href="#">BAS70-G</a>
100	100	0.45	1.0	1.0	200				
100	150	0.25	0.1	0.45	10			<a href="#">BAT46W</a> <a href="#">BAT46W-G</a>	
For further information, visit <a href="http://www.vishay.com/diodes/ss-schottky/">http://www.vishay.com/diodes/ss-schottky/</a>  For technical questions, contact <a href="mailto:DiodesEurope@vishay.com">DiodesEurope@vishay.com</a> , <a href="mailto:DiodesAmericas@vishay.com">DiodesAmericas@vishay.com</a> , <a href="mailto:DiodesAsia@vishay.com">DiodesAsia@vishay.com</a>						 SOD-523	 SOD-323	 SOD-123	 SOT-23



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Diodes - Focus Products for Multi-Market Applications




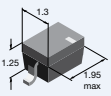
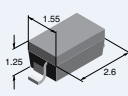
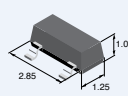
Schottky Diodes						Surface-Mount			Leaded
$V_{RRM}$ (V)	$I_F$ (mA)	$V_F$ max @ $I_F$		$V_F$ max @ $I_F$		 <b>MicroMELF</b> (Glass) (Standard is halogen-free)	 <b>QuadroMELF</b> SOD-80 (Glass) (Halogen-free version available)	 <b>MiniMELF</b> SOD-80 (Glass) (Halogen-free version available)	 <b>DO-35</b> (Glass) (Standard is halogen-free)
		(V)	(mA)	(V)	(mA)				
20	200	0.37	20	0.6	200	<a href="#">MCL103C</a>	<a href="#">LS103C</a>	<a href="#">LL103C</a>	<a href="#">SD103C</a>
30	200	0.32	1.0	0.4	10	<a href="#">BAS385</a>	<a href="#">BAS285</a>	<a href="#">BAS85</a> <a href="#">BAS85-M</a>	<a href="#">BAT85S</a>
30	200	0.33	2	0.45	15			<a href="#">LL43</a>	<a href="#">BAT43</a>
30	200	0.4	10	0.5	30				
30	200	0.4	10	0.65	50			<a href="#">LL42</a>	<a href="#">BAT42</a>
30	200	0.37	20	0.6	200	<a href="#">MCL103B</a>	<a href="#">LS103B</a>	<a href="#">LL103B</a>	<a href="#">SD103B</a>
40	30	0.33	0.1	0.41	1.0	<a href="#">BAS381</a>	<a href="#">BAS281</a>	<a href="#">BAS81</a>	<a href="#">BAT81S</a>
40	30	0.37	1.0	0.37	1.0				
40	30	0.39	1.0	0.9	15	<a href="#">MCL101C</a>	<a href="#">LS101C</a>	<a href="#">LL101C</a>	<a href="#">SD101C</a>
40	200	0.38	1.0	1.0	40				
40	200	0.37	20	0.6	200	<a href="#">MCL103A</a>	<a href="#">LS103A</a>	<a href="#">LL103A</a>	<a href="#">SD103A</a>
50	30	0.33	0.1	0.41	1.0	<a href="#">BAS382</a>	<a href="#">BAS282</a>	<a href="#">BAS82</a>	<a href="#">BAT82S</a>
50	30	0.4	1.0	0.95	15	<a href="#">MCL101B</a>	<a href="#">LS101B</a>	<a href="#">LL101B</a>	<a href="#">SD101B</a>
50	200	0.38	1.0	0.45	10	<a href="#">BAS386</a>	<a href="#">BAS286</a>	<a href="#">BAS86</a> <a href="#">BAS86-M</a>	<a href="#">BAT86S</a>
60	30	0.33	0.1	0.41	1.0	<a href="#">BAS383</a>	<a href="#">BAS283</a>	<a href="#">BAS83</a>	<a href="#">BAT83S</a>
60	30	0.41	1.0	1.0	15	<a href="#">MCL101A</a>	<a href="#">LS101A</a>	<a href="#">LL101A</a>	<a href="#">SD101A</a>
70	200	0.41	1.0	1.0	15				
100	100	0.45	1.0	1.0	200			<a href="#">LL41</a>	<a href="#">BAT41</a>
100	150	0.25	0.1	0.45	10			<a href="#">LL46</a>	<a href="#">BAT46</a>
For further information, visit <a href="http://www.vishay.com/diodes/ss-schottky/">http://www.vishay.com/diodes/ss-schottky/</a>  For technical questions, contact <a href="mailto:DiodesEurope@vishay.com">DiodesEurope@vishay.com</a> , <a href="mailto:DiodesAmericas@vishay.com">DiodesAmericas@vishay.com</a> , <a href="mailto:DiodesAsia@vishay.com">DiodesAsia@vishay.com</a>						 <a href="#">MicroMELF</a>	 <a href="#">SOD-80</a> <a href="#">QuadroMELF</a>	 <a href="#">SOD-80</a> <a href="#">MiniMELF</a>	 <a href="#">DO-35</a>



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## Small-Signal Schottky and Switching Diodes

Diodes - Focus Products for Multi-Market Applications





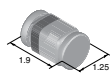
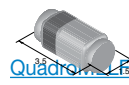
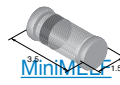
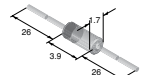
Switching Diodes					Surface-Mount		
$V_{RRM}$ (V)	$I_F / I_{F(AV)}$	$V_F \text{ max @ } I_F$		$t_{rr} \text{ max}$ (ns)	 <b>SOD-323</b>	 <b>SOD-123</b>	 <b>SOT-23</b>
		(V)	(mA)				
50	300	1	200	4		<a href="#">1N4150W</a> <a href="#">1N4150-G</a>	
70	250	1	50	6			<a href="#">BAL99</a> <a href="#">BAL99-G</a>
70	250	1	50	6			<a href="#">BAW56</a> (Common A) <a href="#">BAW56-G</a> (Com. An.) <a href="#">BAV70</a> (Com. Cath.) <a href="#">BAV70-G</a> (Com. Cath.) <a href="#">BAV99</a> (Dual Series) <a href="#">BAV99-G</a> (Dual Series)
75	300	1	50	4	<a href="#">1N4151WS</a> <a href="#">1N4151WS-G</a>	<a href="#">1N4151W</a> <a href="#">1N4151W-G</a>	
70	200	1.1	100	4			<a href="#">MMBD6050</a> <a href="#">MMBD6050-G</a>
100	150	1	10	4	<a href="#">1N4148WS</a> <a href="#">1N4148WS-G</a>	<a href="#">1N4148W</a> <a href="#">1N4148W-G</a>	<a href="#">IMBD4148</a> <a href="#">IMBD4148-G</a>
100	150	1	100	4	<a href="#">1N4448WS</a> <a href="#">1N4448WS-G</a>	<a href="#">1N4448W</a> <a href="#">1N4448-G</a>	<a href="#">IMBD4448</a> <a href="#">IMBD4448-G</a>
100	200	1.1	100	4			<a href="#">MMBD7000</a> <a href="#">MMBD7000-G</a>
100	200	1	10	4			<a href="#">MMBD914</a> <a href="#">MMBD914-G</a>
100	250	1	50	6	<a href="#">BAS16WS</a> <a href="#">BAS16WS-G</a>	<a href="#">BAS16D</a> <a href="#">BAS16D-G</a>	<a href="#">BAS16</a> <a href="#">BAS16-G</a>
120	250	1	100	50	<a href="#">BAV19WS</a> <a href="#">BAV19WS-G</a>	<a href="#">BAV19W</a> <a href="#">BAV19W-G</a>	<a href="#">BAS19</a> <a href="#">BAS19-G</a>
200	250	1	100	50	<a href="#">BAV20WS</a> <a href="#">BAV20WS-G</a>	<a href="#">BAV20W</a> <a href="#">BAV20W-G</a>	<a href="#">BAS20</a> <a href="#">BAS20-G</a>
250	400	1	100	50			<a href="#">BAV23C</a> <a href="#">BAV23C-G</a>
250	250	1	100	50	<a href="#">BAV21WS</a> <a href="#">BAV21WS-G</a>	<a href="#">BAV21W</a> <a href="#">BAV21W-G</a>	<a href="#">BAS21</a> <a href="#">BAS21-G</a>
300	225	1	100	50	<a href="#">GSD2004WS</a> <a href="#">GSD2004WS-G</a>	<a href="#">GSD2004W</a> <a href="#">GSD2004W-G</a>	<a href="#">GSD2004A</a> <a href="#">GSD2004S</a> <a href="#">GSD2004C</a> <a href="#">GSD2004A-G</a> <a href="#">GSD2004S-G</a> <a href="#">GSD2004C-G</a>
For further information, visit <a href="http://www.vishay.com/diodes/switching/">http://www.vishay.com/diodes/switching/</a>  For technical questions, contact <a href="mailto:DiodesEurope@vishay.com">DiodesEurope@vishay.com</a> , <a href="mailto:DiodesAmericas@vishay.com">DiodesAmericas@vishay.com</a> , <a href="mailto:DiodesAsia@vishay.com">DiodesAsia@vishay.com</a>					 <b>SOD-323</b>	 <b>SOD-123</b>	 <b>SOT-23</b>



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Diodes - Focus Products for Multi-Market Applications

Switching Diodes					Surface-Mount			Leaded
								
$V_{RRM}$ (V)	$I_F / I_{F(AV)}$	$V_F$ max @ $I_F$		$t_{rr}$ max (ns)	MicroMELF (Glass) (Standard is halogen-free)	QuadroMELF SOD-80 (Glass) (Halogen-free version available)	MiniMELF SOD-80 (Glass) (Halogen-free version available)	DO-35 (Glass) (Standard is halogen-free)
		(V)	(mA)					
25	250	1	100	50				<a href="#">BAV17</a>
35	300	1	30	4				<a href="#">BAW75</a>
35	300	1	50	4		<a href="#">LS4154</a>	<a href="#">LL4154</a>	<a href="#">1N4154</a>
40	200	1	100		<a href="#">BAQ333</a>	<a href="#">BAQ133</a>	<a href="#">BAQ33</a>	<a href="#">BAS33</a>
50	300	1	200	4		<a href="#">LS4150</a>	<a href="#">LL4150</a>	<a href="#">1N4150</a>
60	250	1	100	50				<a href="#">BAV18</a>
60	250	1	100	50	<a href="#">BAV300</a>	<a href="#">BAV200</a>	<a href="#">BAV100</a>	
70	200	1	100		<a href="#">BAQ334</a>	<a href="#">BAQ134</a>	<a href="#">BAQ34</a>	<a href="#">BAS34</a>
75	300	1	30	4				<a href="#">BAW76</a>
75	300	1	50	4	<a href="#">MCL4151</a>	<a href="#">LS4151</a>	<a href="#">LL4151</a>	<a href="#">1N4151</a>
75	600	1	200	6				<a href="#">BAW27</a>
80	200	1.1	50	20			<a href="#">BA604</a>	
100	300	1	50	8			<a href="#">LL4148, LL4148-M</a>	
100	300	1	10	4	<a href="#">MCL4148</a>	<a href="#">LS4148</a>		<a href="#">1N4148</a>
100	300	1	100	4	<a href="#">MCL4448</a>	<a href="#">LS4448</a>	<a href="#">LL4448</a>	<a href="#">1N4448</a>
100	300	1	10	4				<a href="#">1N914</a>
120	250	1	100	50	<a href="#">BAV301</a>	<a href="#">BAV201</a>	<a href="#">BAV101</a>	<a href="#">BAV19</a>
140	200	1	100		<a href="#">BAQ335</a>	<a href="#">BAQ135</a>	<a href="#">BAQ35</a>	<a href="#">BAY135</a>
150	250	1	100	50				<a href="#">BAY80</a>
200	250	1	100	50	<a href="#">BAV302</a>	<a href="#">BAV202</a>	<a href="#">BAV102</a>	<a href="#">BAV20</a>
250	250	1	100	50	<a href="#">BAV303</a>	<a href="#">BAV203</a>	<a href="#">BAV103</a>	<a href="#">BAV21</a>
For further information, visit <a href="http://www.vishay.com/diodes/switching/">http://www.vishay.com/diodes/switching/</a> For technical questions, contact <a href="mailto:DiodesEurope@vishay.com">DiodesEurope@vishay.com</a> , <a href="mailto:DiodesAmericas@vishay.com">DiodesAmericas@vishay.com</a> , <a href="mailto:DiodesAsia@vishay.com">DiodesAsia@vishay.com</a>					 MicroMELF	 QuadroMELF SOD-80	 MiniMELF SOD-80	 DO-35

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