



# AVALANCHE RECTIFIERS

## Sinterglass and Plastic

### Ultrafast Avalanche Rectifiers

		Product	Package	Dimensions l x b x h (mm) or l x Ø (mm)	Reverse Voltage V <sub>RM</sub> (V)	Reverse Recovery Time t <sub>rrmax</sub> (ns)	Average Forward Current I <sub>FAV</sub> (A)	Forward Voltage V <sub>FM</sub> at I <sub>F</sub> (V at mA)	Non- Repetitive Reverse Avalanche Energy E <sub>RR</sub> at I <sub>RR</sub> (mJ at A)	T <sub>jmax</sub> (°C)	ESD HBM > 8000 V 1500 Ω / 100 pF Typical Rating	ESD MM > 800 V 0 Ω / 200 pF Typical Rating	MSL	Wave Solderable	Reflow Solderable	GREEN (AEC-Q101)*	HALOGEN FREE	RoHS COMPLIANT	AEC-Q101 Qualified
Leaded Sinterglass		<a href="#">BYT53A to BYT53G</a>	SOD-57	4.2 x Ø3.6	50 to 400	50	1.9	1.1 at 1	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYV26A to BYV26E</a>	SOD-57	4.2 x Ø3.6	200 to 1000	30 (75)	1	2.5 at 1	10 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYV27-50 to BYV27-200</a>	SOD-57	4.2 x Ø3.6	50 to 200	25	2	1.07 at 3	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYV27-600</a>	SOD-57	4.2 x Ø3.6	600	40	2	1.35 at 3	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">SF1200 to SF1600</a>	SOD-57	4.2 x Ø3.6	1200 to 1600	75	1	3.4 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
	<a href="#">SF4001 to SF4007</a>	SOD-57	4.2 x Ø3.6	50 to 1000	50 (75)	1	1 (1.7) at 1	10 at 0.4	175	X	X	n/a	X		X	X			
		<a href="#">BYV28-50 to BYV28-200</a>	SOD-64	4.2 x Ø4.3	50 to 200	30	3.5	1.1 at 5	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYV28-600</a>	SOD-64	4.2 x Ø4.3	600	50	3.5	1.35 at 5	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYV98-50 to BYV98-200</a>	SOD-64	4.2 x Ø4.3	50 to 200	35	4	1.1 at 5	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYW178</a>	SOD-64	4.2 x Ø4.3	800	60	3	1.9 at 3	20 at 1	175	X	X	n/a	X		X	X		
<a href="#">SF5401 to SF5408</a>		SOD-64	4.2 x Ø4.3	100 to 1000	50 (75)	3	1.1 (1.7) at 3	10 at 0.4	175	X	X	n/a	X		X	X			
SMD Plastic		<a href="#">AU1PDH to AU1MH</a>	DO-220AA (SMP)	4 x 2.18 x 1.15	200 to 1000	75	1	1.5 (1.85) at 1	20 at 1	175	X	X	1	X		X	X	X	
		<a href="#">BYG20DH to BYG20JH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	200 to 600	75	1.5	1.3 at 1	20 at 1	150	X	X	1	X		X	X	X	
		<a href="#">BYG23MH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	1000	75	1.5	1.7 at 1	20 at 1	150	X	X	1	X		X	X	X	
		<a href="#">BYG22AH to BYG22DH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	50 to 200	25	2	1 at 1	20 at 1	150	X	X	1	X		X	X	X	
			<a href="#">AU2PDH to AU2PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	75	2	1.9 (2.5) at 2	30 at 1	175	X	X	1	X		X	X	X
			<a href="#">AU3PDH to AU3PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	75	3	1.9 (2.5) at 3	30 at 1	175	X	X	1	X		X	X	X

### Fast Avalanche Rectifiers

		Product	Package	Dimensions l x b x h (mm) or l x Ø (mm)	Reverse Voltage V <sub>RM</sub> (V)	Reverse Recovery Time t <sub>rrmax</sub> (ns)	Average Forward Current I <sub>FAV</sub> (A)	Forward Voltage V <sub>FM</sub> at I <sub>F</sub> (V at mA)	Non- Repetitive Reverse Avalanche Energy E <sub>RR</sub> at I <sub>RR</sub> (mJ at A)	T <sub>jmax</sub> (°C)	ESD HBM > 8000 V 1500 Ω / 100 pF Typical Rating	ESD MM > 800 V 0 Ω / 200 pF Typical Rating	MSL	Wave Solderable	Reflow Solderable	GREEN (AEC-Q101)*	HALOGEN FREE	RoHS COMPLIANT	AEC-Q101 Qualified
Leaded Sinterglass		<a href="#">BY203-12S to BY203-20S</a>	SOD-57	4.2 x Ø3.6	1200 to 2000	300	0.25	2.4 at 0.2	10 at 0.4	175		X	n/a	X		X	X		
		<a href="#">BY268 to BY269</a>	SOD-57	4.2 x Ø3.6	1400 to 1600	400	0.8	1.25 at 0.4	10 at 0.4	175		X	n/a	X		X	X		
		<a href="#">BYT52A to BYT52M</a>	SOD-57	4.2 x Ø3.6	50 to 1000	200	1.4	1.3 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYT54A to BYT54M</a>	SOD-57	4.2 x Ø3.6	50 to 1000	100	1.25	1.5 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYV12 to BYV16</a>	SOD-57	4.2 x Ø3.6	100 to 1000	300	1.5	1.5 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYV37 to BYV38</a>	SOD-57	4.2 x Ø3.6	800 to 1000	300	2	1.1 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYW32 to BYW36</a>	SOD-57	4.2 x Ø3.6	200 to 600	200	2	1.1 at 1	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">1N5417 to 1N5418</a>	SOD-64	4.2 x Ø4.3	200 to 400	100	3	1.1 at 3	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYW172D to BYW172G</a>	SOD-64	4.2 x Ø4.3	200 to 400	100	3	1.1 at 3	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYM36A to BYM36E</a>	SOD-64	4.2 x Ø4.3	200 to 1000	100 (150)	3 (2.9)	1.6 (1.78) at 3	20 at 1	175	X	X	n/a	X		X	X		
		<a href="#">BYT56A to BYT56M</a>	SOD-64	4.2 x Ø4.3	50 to 1000	100	3	1.4 at 3	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYT77 to BYT78</a>	SOD-64	4.2 x Ø4.3	800 to 1000	250	3	1.2 at 3	10 at 0.4	175	X	X	n/a	X		X	X		
		<a href="#">BYW72 to BYW76</a>	SOD-64	4.2 x Ø4.3	200 to 600	200	3	1.1 at 3	10 at 0.4	175	X	X	n/a	X		X	X		



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	Product	Package	Dimensions l x b x h (mm) or l x Ø (mm)	Reverse Voltage $V_{Rmax}$ (V)	Reverse Recovery Time $t_{rrmax}$ (ns)	Average Forward Current $I_{FAV}$ (A)	Forward Voltage $V_{Fmax}$ at $I_F$ (V at mA)	Non- Repetitive Reverse Avalanche Energy $E_{AR}$ at $I_{AR}$ (mJ at A)	$T_{max}$ (°C)	ESD HBM > 8000 V 1500 Ohm / 100 pF Typical Rating	ESD MM > 800 V 0 Ohm / 200 pF Typical Rating	MSL	Wave Solderable	Reflow Solderable	GREEN (I2-2002)*	HALOGEN FREE	RoHS COMPLIANT	AEC-Q101 Qualified
SMD Plastic	<a href="#">AR1PDH to AR1PMH</a>	DO-220AA (SMP)	4 x 2.18 x 1.15	200 to 1000	120 (140)	1	1.25 (1.6) at 1	20 at 1	175	X	X	1	X	X	X	X	X	
	<a href="#">BYG21KH to BYG21MH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	800 to 1000	120	1.5	1.5 at 1	20 at 1	150	X	X	1	X	X	X	X	X	
	<a href="#">BYG24DH to BYG24JH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	200 to 600	140	1.5	1.15 at 1	20 at 1	150	X	X	1	X	X	X	X	X	
	<a href="#">AR3PDH to AR3PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	120 (140)	3	1.6 (1.9) at 3	30 at 1	175	X	X	1	X	X	X	X	X	
	<a href="#">AR4PDH to AR4PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	120	4	1.6 (1.9) at 4	30 at 1	175	X	X	1	X	X	X	X	X	

### Standard Avalanche Rectifiers

	Product	Package	Dimensions l x b x h (mm) or l x Ø (mm)	Reverse Voltage $V_{Rmax}$ (V)	Reverse Recovery Time $t_{rrmax}$ (ns)	Average Forward Current $I_{FAV}$ (A)	Forward Voltage $V_{Fmax}$ at $I_F$ (V at mA)	Non- Repetitive Reverse Avalanche Energy $E_{AR}$ at $I_{AR}$ (mJ at A)	$T_{max}$ (°C)	ESD HBM > 8000 V 1500 Ohm / 100 pF Typical Rating	ESD MM > 800 V 0 Ohm / 200 pF Typical Rating	MSL	Wave Solderable	Reflow Solderable	GREEN (I2-2002)*	HALOGEN FREE	RoHS COMPLIANT	AEC-Q101 qualified
Leaded Sinterglass	<a href="#">1N5059 to 1N5062</a>	SOD-57	4.2 x Ø3.6	200 to 800	4000	2	1 at 1	20 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BY448 to BY458</a>	SOD-57	4.2 x Ø3.6	1200 to 1400	2000	2	1.6 at 3	10 at 0.4	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BY527</a>	SOD-57	4.2 x Ø3.6	800	4000	2	1 at 1	20 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BYT51A to BYT51M</a>	SOD-57	4.2 x Ø3.6	50 to 1000	4000	1.5	1.1 at 1	20 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BYT62</a>	SOD-57	4.2 x Ø3.6	2400	5000	0.35	3 at 0.2	60 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BYW52 to BYW56</a>	SOD-57	4.2 x Ø3.6	200 to 1000	4000	2	1 at 1	20 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">S330D</a>	SOD-57	4.2 x Ø3.6	1000	4000	2	1.65 at 10	20 at 1	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BY228</a>	SOD-64	4.2 x Ø4.3	1500	2000	3	1.5 at 5	10 at 0.4	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BY228-13 to BY228-15</a>	SOD-64	4.2 x Ø4.3	1000 to 1200	2000	3	1.5 at 5	10 at 0.4	175	X	X	n/a	X	X	X	X	X	
	<a href="#">BYW82 to BYW86</a>	SOD-64	4.2 x Ø4.3	200 to 1000	5000	3	1 at 3	20 at 1	175	X	X	n/a	X	X	X	X	X	
<a href="#">1N5624 to 1N5627</a>	SOD-64	4.2 x Ø4.3	200 to 800	5000	3	1 at 3	20 at 1	175	X	X	n/a	X	X	X	X	X		
SMD Plastic	<a href="#">AS1PDH to AS1PMH</a>	DO-220AA (SMP)	4 x 2.18 x 1.15	200 to 1000	typ. 1500	1.5	1.15 at 1.5	20 at 1	175	X	X	1	X	X	X	X	X	
	<a href="#">BYG10DH to BYG10MH</a>	DO-214AC (SMA)	5.28 x 2.79 x 2.29	200 to 1000	4000	1.5	1.15 at 1.5	20 at 1	150	X	X	1	X	X	X	X	X	
	<a href="#">AS3BJH</a>	DO-214AA (SMB)	5.59 x 3.94 x 2.44	200 to 600	typ. 1500	3	1.05 at 3	30 at 1	175	X	X	1	X	X	X	X	X	
	<a href="#">AS3PDH to AS3PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	-	3	1.1 at 3	30 at 1	175	X	X	1	X	X	X	X	X	
	<a href="#">AS4PDH to AS4PMH</a>	TO-277A (SMPC)	4.75 x 6.65 x 1.2	200 to 1000	-	4	1.1 at 4	30 at 1	175	X	X	1	X	X	X	X	X	