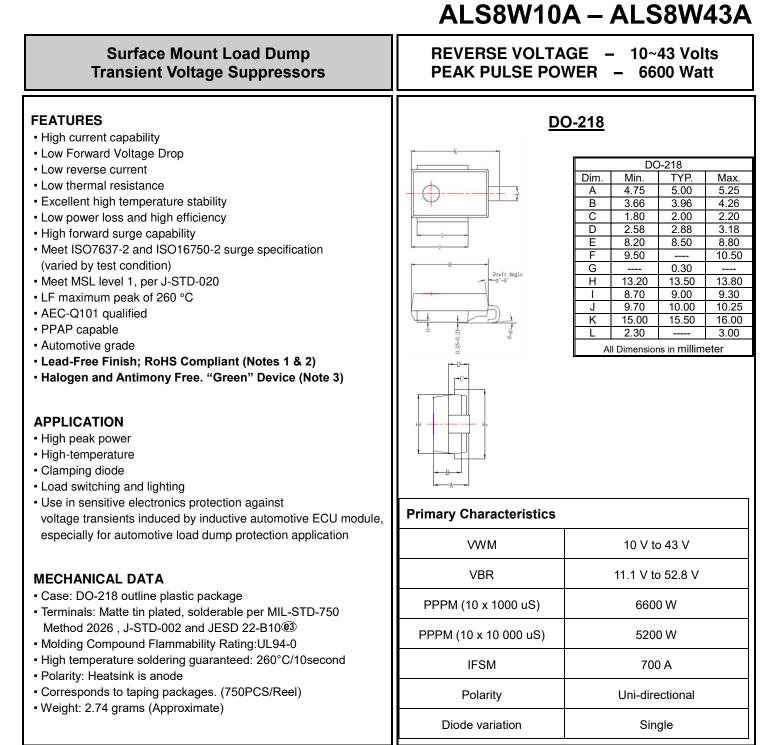




A Product Line of

Diodes Incorporated



Note:

REV-8, Oct-2021, KSIB06

<sup>1.</sup> EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

<sup>2.</sup> See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

<sup>3.</sup> Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



#### **Maximum Ratings** (TA = 25 °C unless otherwise noted)

Parame	Symbol	Value	Units	
Peak pulse newer dissinction	10/1000 µs waveform	DDDM	6600	
Peak pulse power dissipation	10/10 000 µs waveform	PPPM	5200	W
Peak forward surge current 8.3 ms single half	IFSM	700	А	
Operating junction and storage temperature ra	TJ, TSTG	-55 to +175	°C	

#### Electrical Characteristics (TA = 25 °C unless otherwise noted)

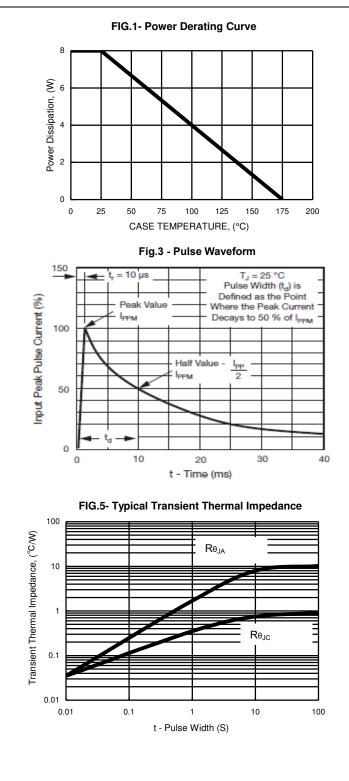
Part Number	Volt Vi	down tage BR /)	Test Current Ιτ (mA)	Stand-OFF Voltage Vwм (V)	Maximum Reverse Leakage at Vwм I⊵ (uA)	Maximum Leakage at Vwm T」= 175 °C	Max. Peak Pulse Current at 10/1000 us Waveform (A)	Maximum Clamping Voltage at I <sub>PPM</sub> Vc (V)
	Min.	Max.				ID (uA)		
ALS8W10A	11.1	12.3	5.0	10.0	15	250	388	17.0
ALS8W11A	12.2	13.5	5.0	11.0	10	150	363	18.2
ALS8W12A	13.3	14.7	5.0	12.0	10	150	332	19.9
ALS8W13A	14.4	15.9	5.0	13.0	10	150	307	21.5
ALS8W14A	15.6	17.2	5.0	14.0	10	150	284	23.2
ALS8W15A	16.7	18.5	5.0	15.0	10	150	270	24.4
ALS8W16A	17.8	19.7	5.0	16.0	10	150	254	26.0
ALS8W17A	18.9	20.9	5.0	17.0	10	150	239	27.6
ALS8W18A	20.0	22.1	5.0	18.0	10	150	226	29.2
ALS8W20A	22.2	24.5	5.0	20.0	10	150	204	32.4
ALS8W22A	24.4	26.9	5.0	22.0	10	150	186	35.5
ALS8W24A	26.7	29.5	5.0	24.0	10	150	170	38.9
ALS8W26A	28.9	31.9	5.0	26.0	10	150	157	42.1
ALS8W28A	31.1	34.4	5.0	28.0	10	150	145	45.4
ALS8W30A	33.3	36.8	5.0	30.0	10	150	136	48.4
ALS8W33A	36.7	40.6	5.0	33.0	10	150	124	53.3
ALS8W36A	40.0	44.2	5.0	36.0	10	150	114	58.1
ALS8W40A	44.4	49.1	5.0	40.0	10	150	102	64.5
ALS8W43A	47.8	52.8	5.0	43.0	10	150	95.1	69.4

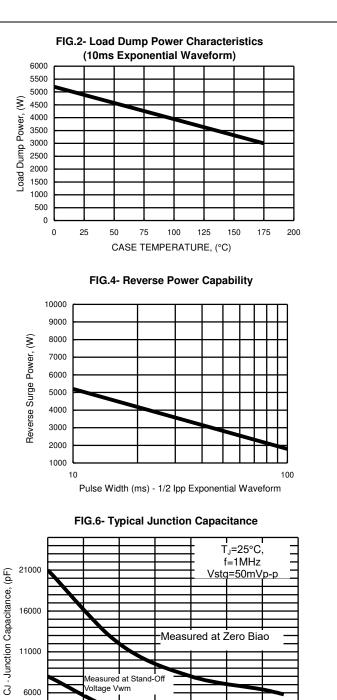
#### Note:

4. For all types maximum VF = 1.8V at IF = 100A measured on 8.3ms single half sine-wave.



#### RATING AND CHARACTERISTIC CURVES ALS8W10A – ALS8W43A





1000

10

15

20

25

Vwm - Reverse Stand-Off Voltage (V)

30

35

40

45

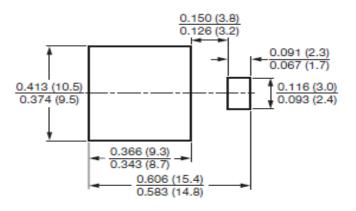


# **Ordering Information :** Part Number Case Packaging DO-218 ALS8WxxA 750pcs/Reel Marking Information : LT = Manufacturer's Code Marking S8WxxA = Product Type Marking Code YXWW = Date Code Marking LT YXWW Y = Last Digit of Year (ex: 1 = 2021) X = Manufacturer's Internal Code WW = Week Code (01 to 53) S8WxxA xxxxxx = Assembly Tracking Code Cathode Bar XXXXXXX



Packaging Information :								
DEVICE -	REEL DIA.	Q'TY/REEL	REEL/BOX	Q'TY/BOX	BOX/CARTON	Q'TY/CARTON	BOX SIZE	CARTON SIZE
	(INCH)	(PCS)	(REEL)	(PCS)	(BOX)	(PCS)	(mm)	(mm)
ALS8WxxA	13	750	1	750	4	3000	360*340*52	382*360*240

## Soldering Pad Layout :





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