

US2AW THRU US2MW

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V Forward Current - 2 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- High efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

• Case: SOD-123FL

• Terminals: Solderable per MIL-STD-750, Method 2026

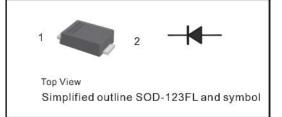
• Approx. Weight:15mg 0.00053oz

Maximum Ratings and Electrical characteristics

PIN DESCRIPTION

1 Cathode

2 Anode



Ratings at 25° C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	US2AW	U\$2BW	U\$2DW	US2GW	US2JW	U\$2KW	US2MW	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{pc}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	e Wave Superimposed on Rated Load I _{FSM} 50						Α		
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.0 1.4 1.68						٧	
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R				5 100	=			
Maximum Reverse Recovery Time 1)	t,,,	50 75					ทธ		
Typical Junction Capacitance 2>	C _j	25					рF		
Typical Thermal Resistance 3>	R _{g,IA}	90					°C/W		
Operating and Storage Temperature Range	Tj, Tsig	-55~+150							°C

^{1)} Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A

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^{2)} Measured at 1 MHz and applied reverse voltage of 4 V D.C

^{3)} P.C.B. mounted with 0.2x0.2" (5.0x5.0 mm) copper pad areas.



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Fig.1 Maximum Average Forward Current Rating

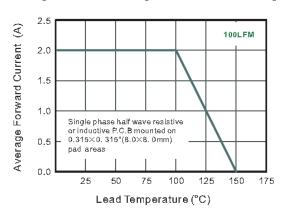


Fig.3 Typical Forward Characteristics

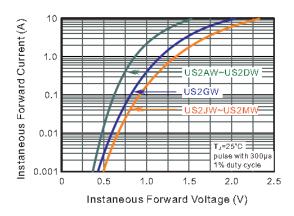


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

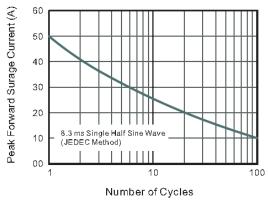


Fig.2 Typical Reverse Characteristics

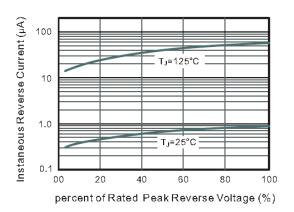


Fig.4 Typical Junction Capacitance

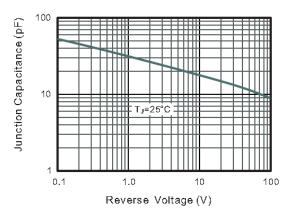
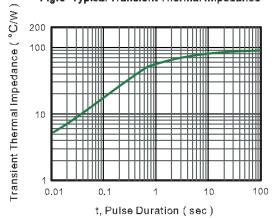


Fig.6- Typical Transient Thermal Impedance



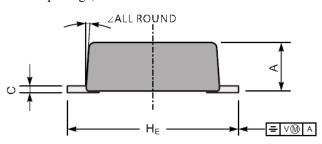
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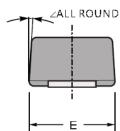
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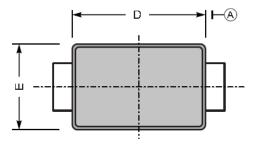
PACKAGE OUTLINE

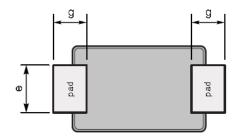
Plastic surface mounted package; 2 leads









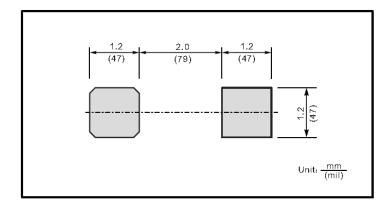


Top View

Bottom View

UNIT		Α	С	D	Е	е	g	HE		
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8		
	min	0.9	0.12	2.6	1.7	8.0	0.7	3.5	7°	
mil	max	43	7.9	114	75	43	35	150	,	
	min	35	4.7	102	67	31	28	138		

The recommended mounting pad size



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