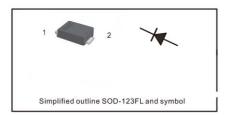


• SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V Forward Current - 1 A



Maximum Ratings and Electrical characteristics

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	US1AW	US1BW	US1DW	US1GW	US1JW	US1KW	US1MW	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}		1						Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}				25	25			
Maximum Instantaneous Forward Voltage at 1 A	V _F		1.0		1.4	1.7			V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R				5 100				μА
Maximum Reverse Recovery Time 1)	t _{rr}	50 75					ns		
Typical Thermal Resistance	R _{BJA}	180					°C/W		
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°C	

^{1)} Measured with I = 0.5 A, I $_{R}$ = 1 A, I $_{rr}$ = 0.25 A



Fig.1 Forward Current Derating Curve

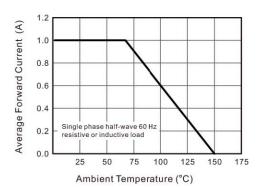


Fig.2 Typical Reverse Characteristics

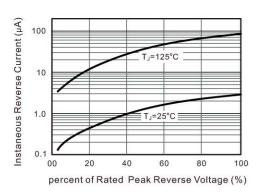


Fig.3 Typical Instaneous Forward Characteristics

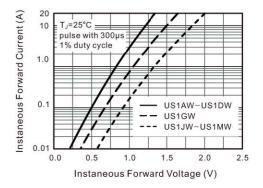
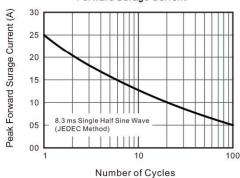
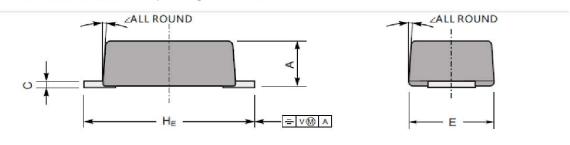


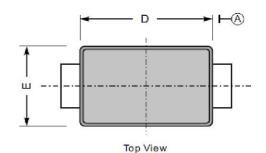
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

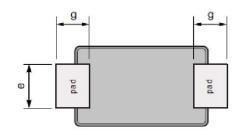


PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



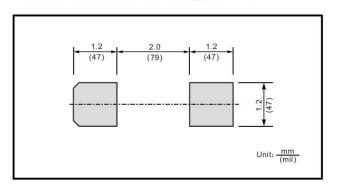




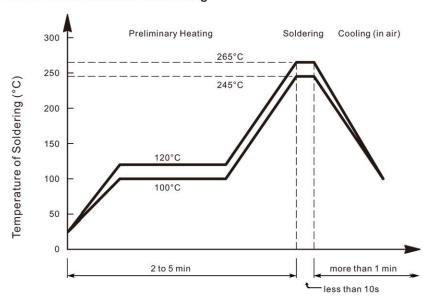
Bottom View

UNIT		Α	С	D	E	е	g	HE	2
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

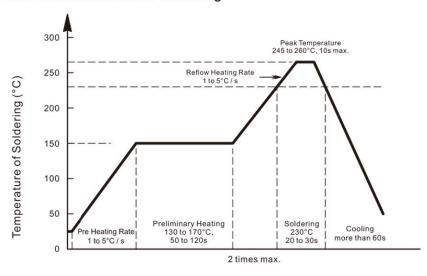
The recommended mounting pad size



· Recommended condition of flow soldering



· Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters; time length of peak temperature (longer), time length of soldering (longer), thickness of solder paste (thicker)

· Condition of hand soldering

Temperature: 370°C Time: 3s max. Times: one time

Remark

Lead free solder paste (96.5Sn/3.0Ag/0.5Cu)

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