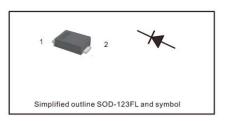


Surface Mount Fast Recovery Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 1 A



Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 $^{\circ}$ C.

Parameter	Symbols	FR101W	FR102W	FR103W	FR104W	FR105W	FR106W	FR107W	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	tified Current 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						Α	
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.3						٧	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	I _R 5 100						μА	
Maximum Reverse Recovery Time 1)	t _{rr}	150 250 500			00	ns			
Typical Junction Capacitance 2)	Cj	15					pF		
Operating and Storage Temperature Range	emperature Range T_j, T_{stg} -55 ~ +150						°C		

¹⁾ Measured with IF = 0.5 A, IR = 1 A, I $_{rr}$ = 0.25 A

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

Fig.1 Forward Current Derating Curve

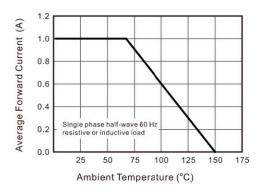


Fig.2 Typical Reverse Characteristics

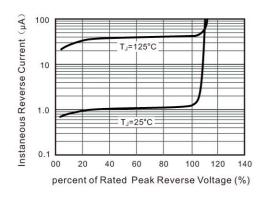


Fig.3 Typical Instaneous Forward Characteristics

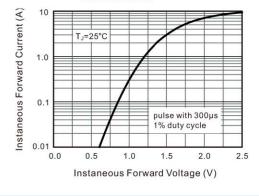


Fig.4 Typical Junction Capacitance

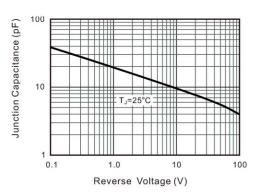
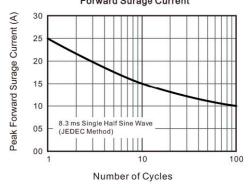


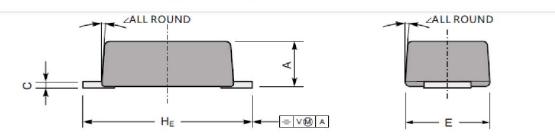
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

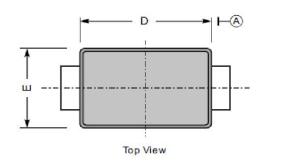


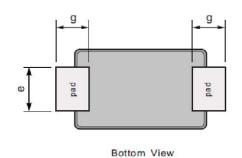


PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

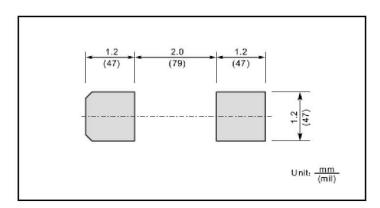




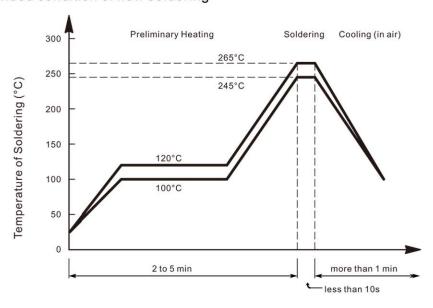


UNIT		Α	С	D	E	е	g	HE	2	
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8		
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	7°	
mil	max	43	7.9	114	75	43	35	150	/	
	min	35	4.7	102	67	31	28	138		

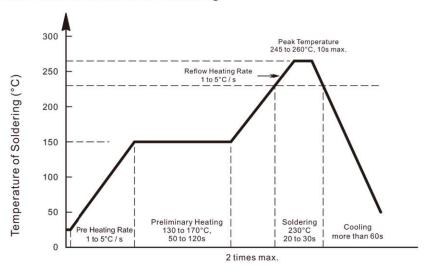
The recommended mounting pad size



· 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)

单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)