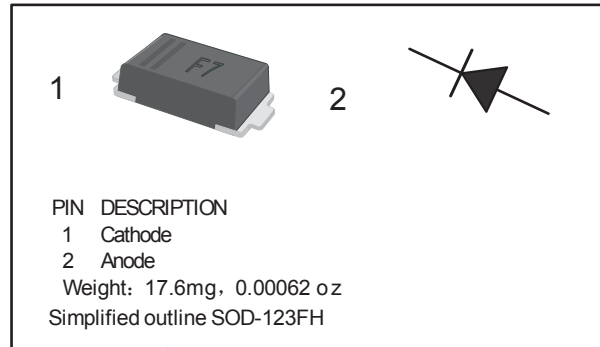


Fast Recovery Rectifiers

FR101FH~FR107FH

■ Features

- Surface Mount Fast Recovery Rectifiers
- Reverse Voltage - 50 to 1000 V
- Forward Current :1 A



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	FR101FH	FR102FH	FR103FH	FR104FH	FR105FH	FR106FH	FR107FH	Unit	
Repetitive Peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Surge Peak reverse voltage	VRSM	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000		
Forward voltage @ IF=1A	VF	1.3								A
Max.averaged fwd.current. @ Ta=65°C	IFAV	1								
Peak forward surge current	IFSM	25								
Maximum DC Reverse Current Ta=25°C Ta=125°C	IR	5								μA
		100								
Maximum Reverse Current *1	trr	150				250	500		ns	
Typical Junction Capacitance *2	Cj	15								pF
Junction temperature	Tj	150								°C
Storage temperature	Tstg	-55 to 150								

* 1 Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A

* 2 Measured at 1MHz and applied reverse voltage of 4V D.C

■ Marking

NO.	FR101FH	FR102FH	FR103FH	FR104FH	FR105FH	FR106FH	FR107FH
Marking	F2				F3	F7	

Fast Recovery Rectifiers FR101FH~FR107FH

■ Typical Characteristics

Fig.1 Forward Current Derating Curve

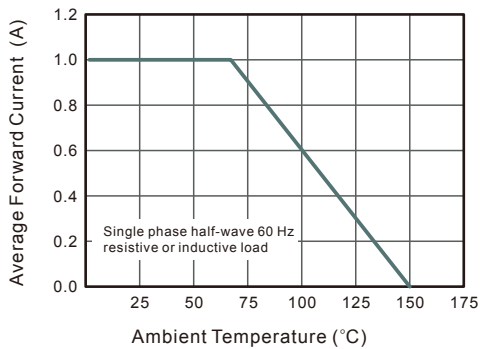


Fig.2 Typical Reverse Characteristics

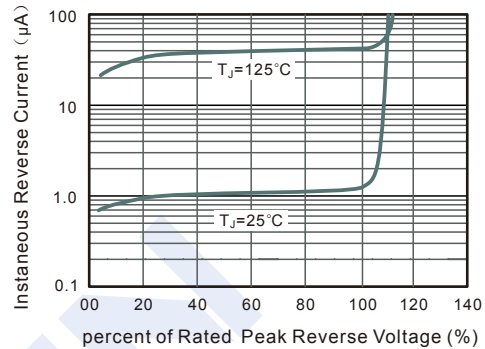


Fig.3 Typical Instantaneous Forward Characteristics

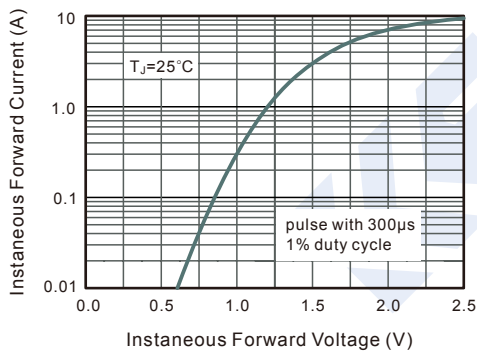


Fig.4 Typical Junction Capacitance

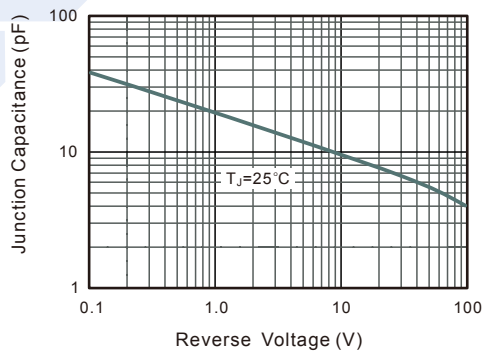
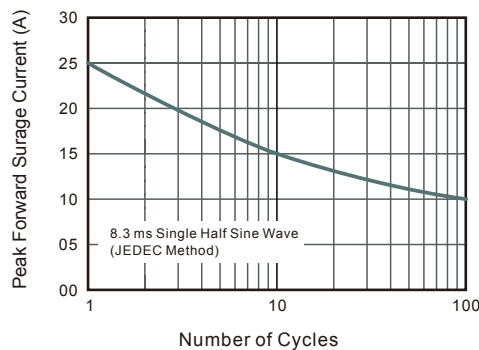


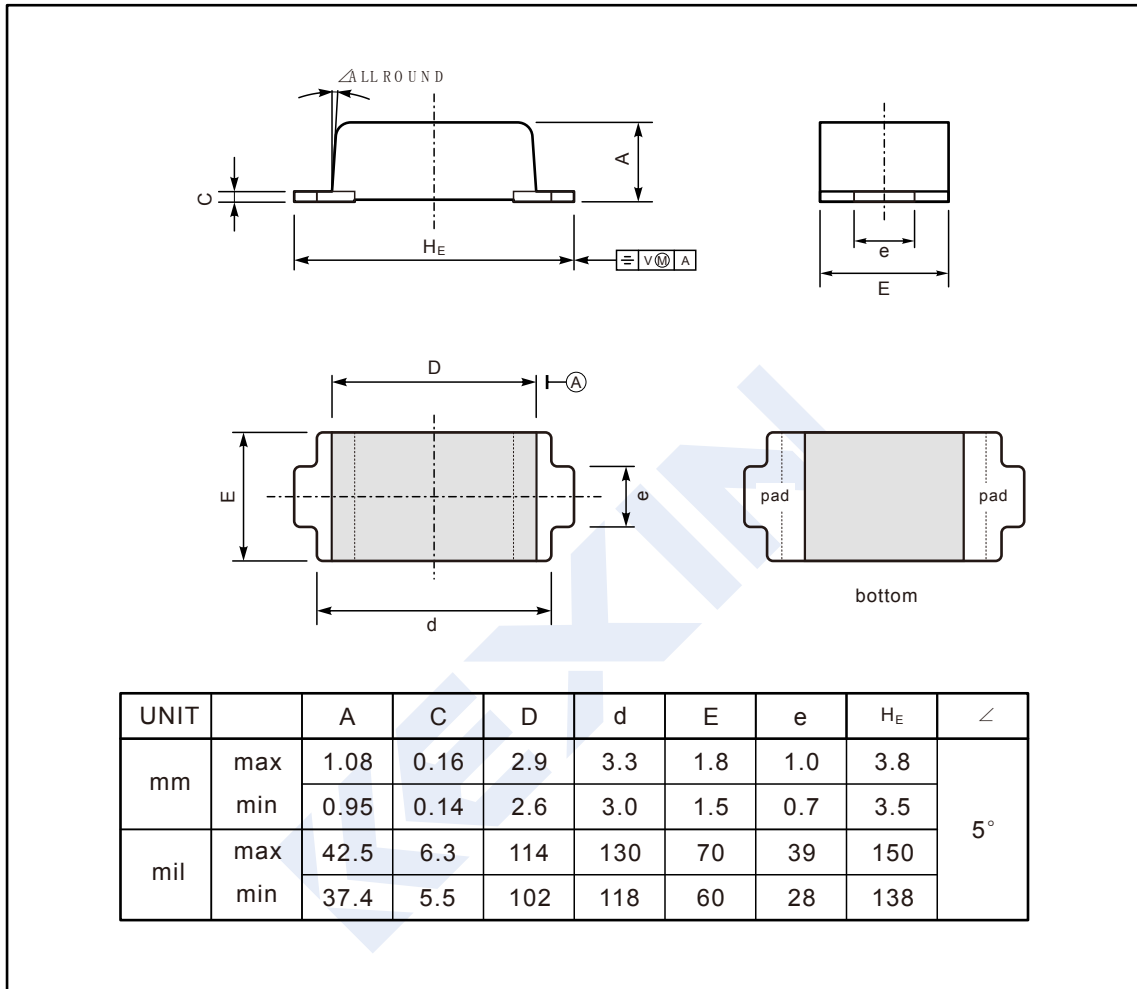
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



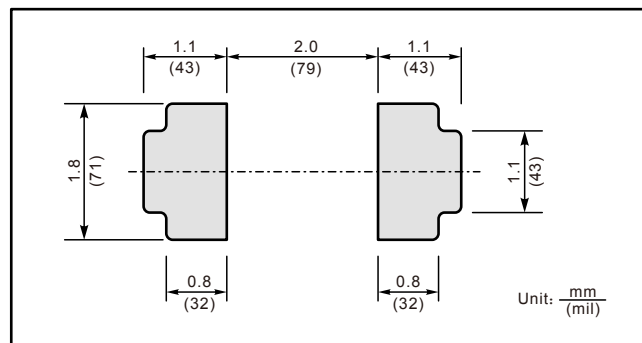
Fast Recovery Rectifiers FR101FH~FR107FH

■ Typical Applicator

Plastic surface mounted package; 2 leads



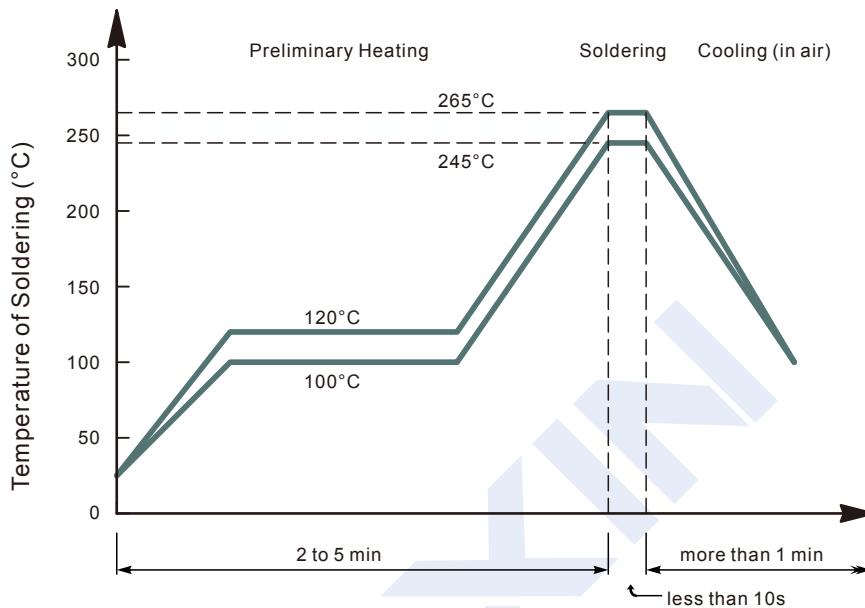
The recommended mounting pad size



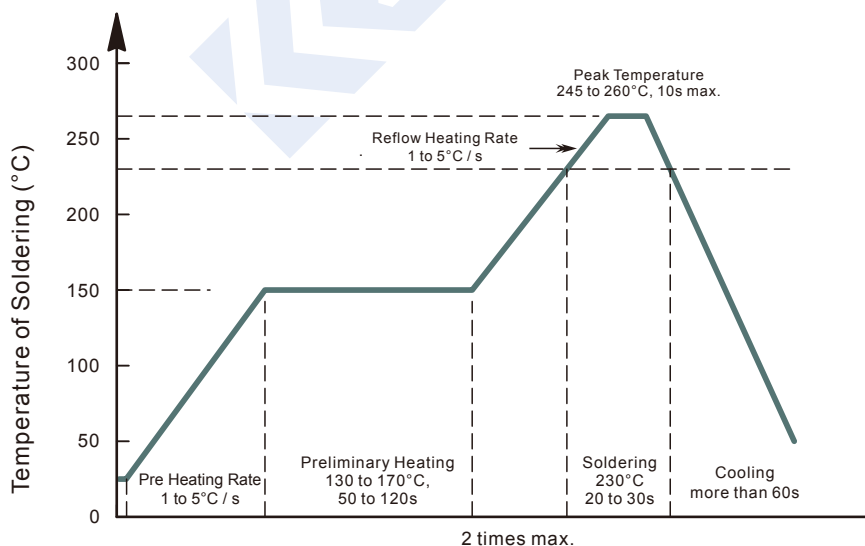
Fast Recovery Rectifiers FR101FH~FR107FH

■ Typical Application

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)