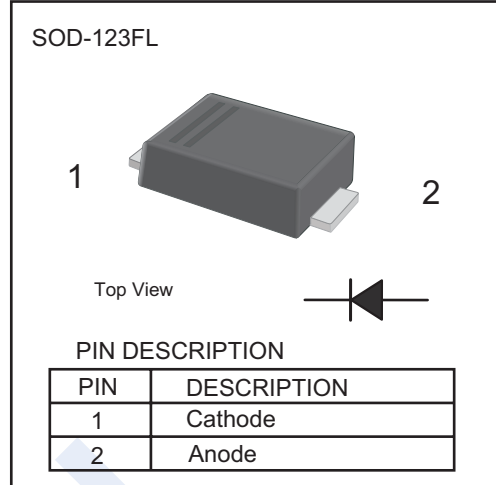


Fast Recovery Diodes

FR101FL ~ FR107FL

■ Features

- Glass passivated device
- Ideal for surface mounted applications
- Low reverse leakage
- Metallurgically bonded construction



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	FR 101FL	FR 102FL	FR 103FL	FR 104FL	FR 105FL	FR 106FL	FR 107FL	Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
RMS Voltage	V _{RMS}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000		
Forward Voltage at 1.0A	V _F	1.3								A
Averaged Forward Current.Ta=65°C (Note.1)	I _{FAV}	1								
Peak Forward Surge Current T _L =25°C	I _{FSM}	20								
Maximum DC Reverse Current Ta=25°C	I _R	5								μA
Ta=125°C		50								
Reverse recovery time (Note.2)	t _{rr}	150			250	500			ns	
Typical Junction Capacitance (Note.3)	C _j	4								pF
Typical Thermal Resistance (Note.4)	R _{θJA}	180								°C/W
Junction Temperature	T _j	150								°C
Storage Temperature	T _{stg}	-55 to 150								

Note.1: Averaged over any 20ms period.

Note.2: Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

Note.3: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note.4: Thermal resistance junction to ambient, 6.0 mm² copper pads to each terminal.

■ Marking

NO.	FR101FL	FR102FL	FR103FL	FR104FL	FR105FL	FR106FL	FR107FL
Marking	F1	F2	F3	F4	F5	F6	F7

Fast Recovery Diodes

FR101FL ~ FR107FL

■ Typical Characteristics

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

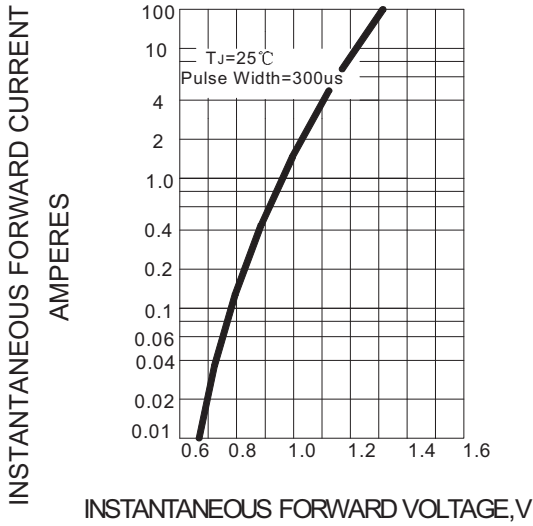


FIG.2 – TYPICAL JUNCTION CAPACITANCE

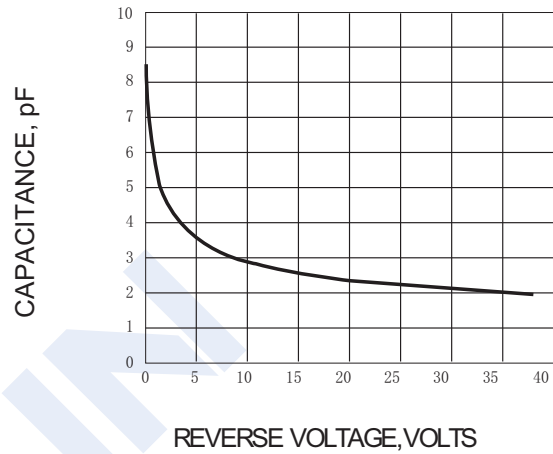


FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS

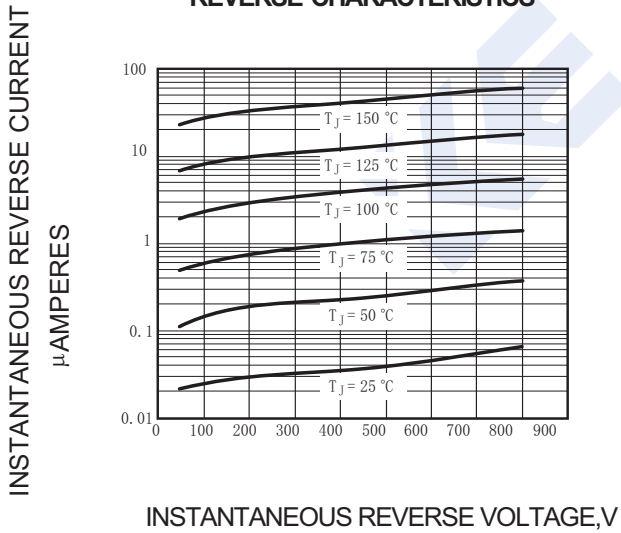
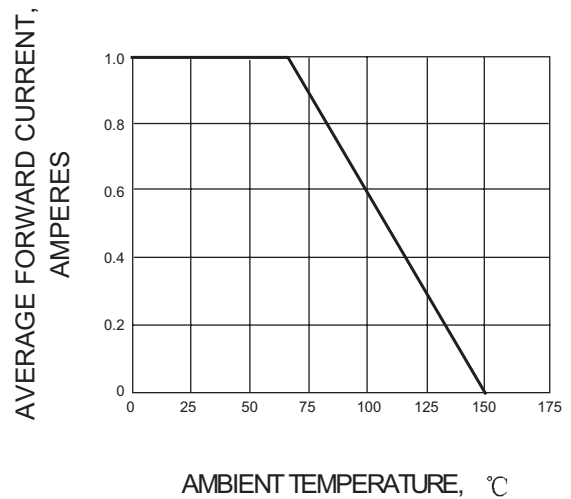


FIG.4 – FORWARD DERATING CURVE



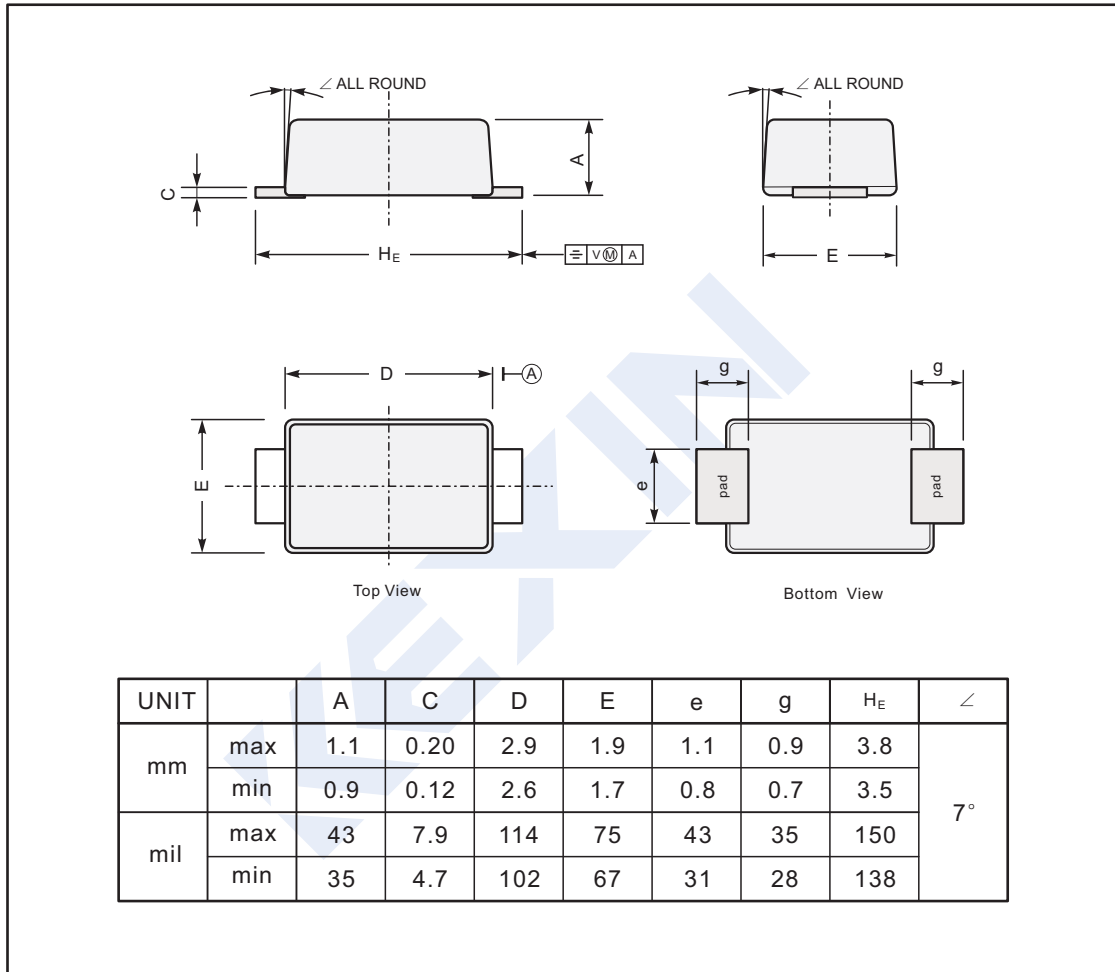
Fast Recovery Diodes

FR101FL ~ FR107FL

■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123FL



■ The Recommended Mounting Pad Size

