

Surface Mount Rectifier Diode

Features

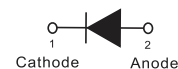
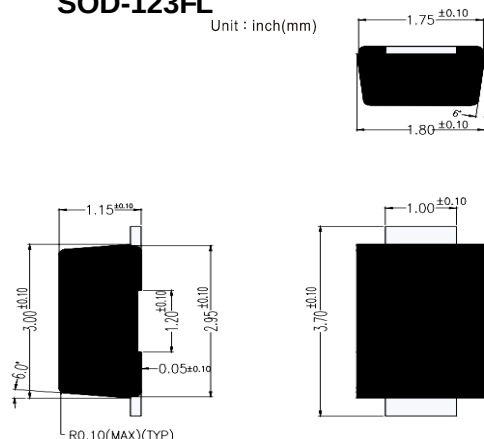
- Glass passivated junction chip
- Ideal for automated placement
- Low forward voltage drop
- High surge current capability
- AEC-Q101 qualified
- Comply with RoHS standard, halogen-free

Mechanical Data

- package: SOD-123FL
- Polarity: Indicated by cathode band
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position : Any

SOD-123FL

Unit : inch(mm)



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

[illegible]

Thermal Performance

Parameter	Symbol	Typ	Unit
Junction to Lead Thermal Resistance	$R_{\theta JL}$	25	°C/W
Junction to Ambient Thermal Resistance	$R_{\theta JA}$	85	°C/W

Electrical Specifications (T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Typ	Max	Unit
Forward voltage ⁽¹⁾	I _F = 1A, T _J = 25°C	V _F	-	1.1	V
Reverse current @ rated V _R per diode ⁽²⁾	T _J = 25°C	I _R	-	1	μA
	T _J = 125°C		-	50	μA
Junction capacitance	1 MHz, V _R =4V	C _J	7	-	pF

Notes:

1. Pulse test with $PW=0.3$ ms
2. Pulse test with $PW=30$ ms



Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

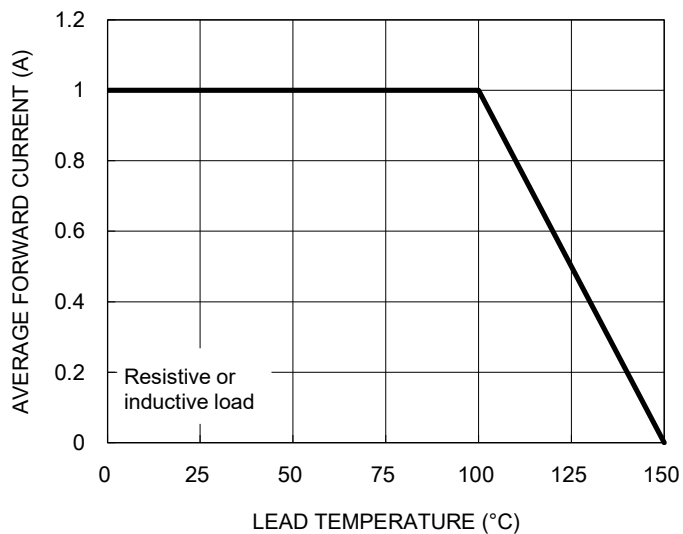


Fig.2 Typical Junction Capacitance

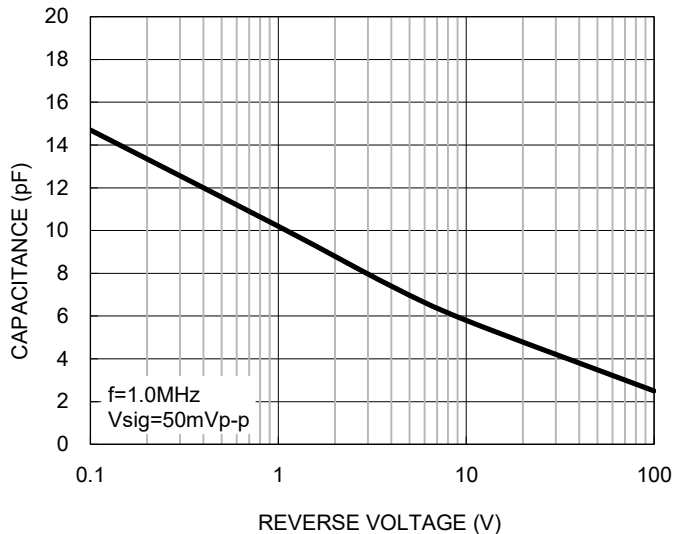


Fig.3 Typical Reverse Characteristics

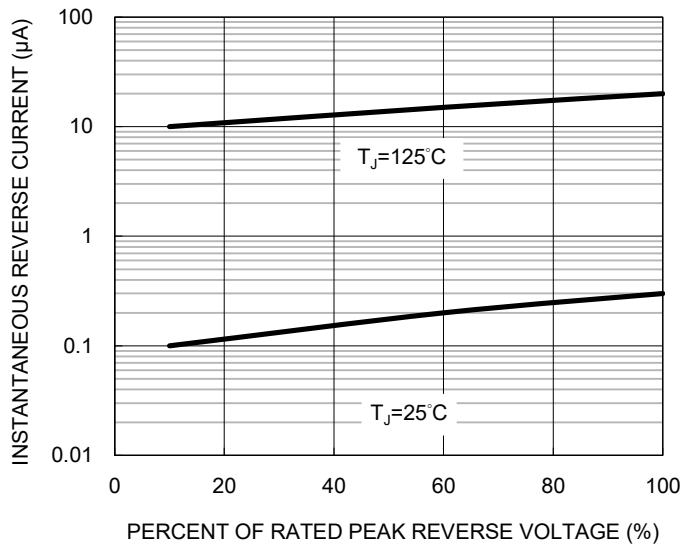


Fig.4 Typical Forward Characteristics

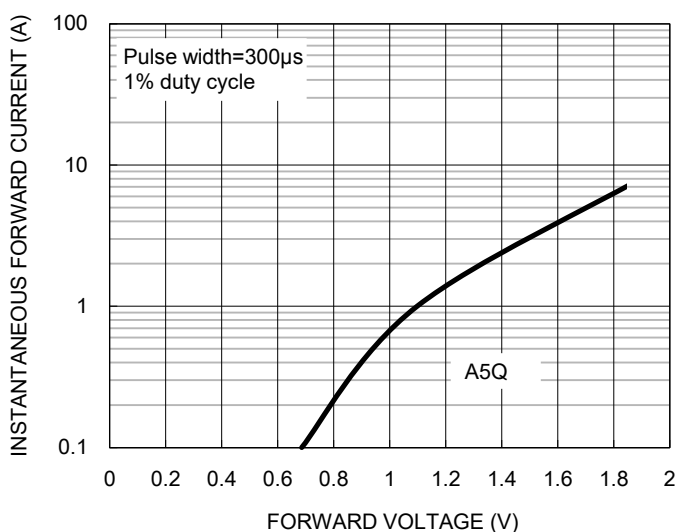


Fig.5 Maximum Non-repetitive Forward Surge Current

