

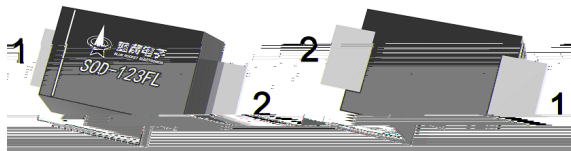
Rev.A Sep.-2023

800V 1.0A SOD-123FL

Surface Mount Superfast Recovery Rectifiers, Reverse Voltage: 800V, Forward Current: 1.0A, SOD-123FL thin package.

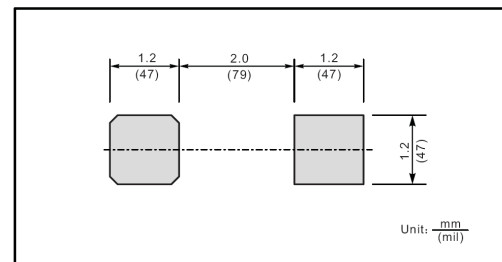
Superfast recovery times for high efficiency, For surface mounted applications, HF Product.

General purpose.



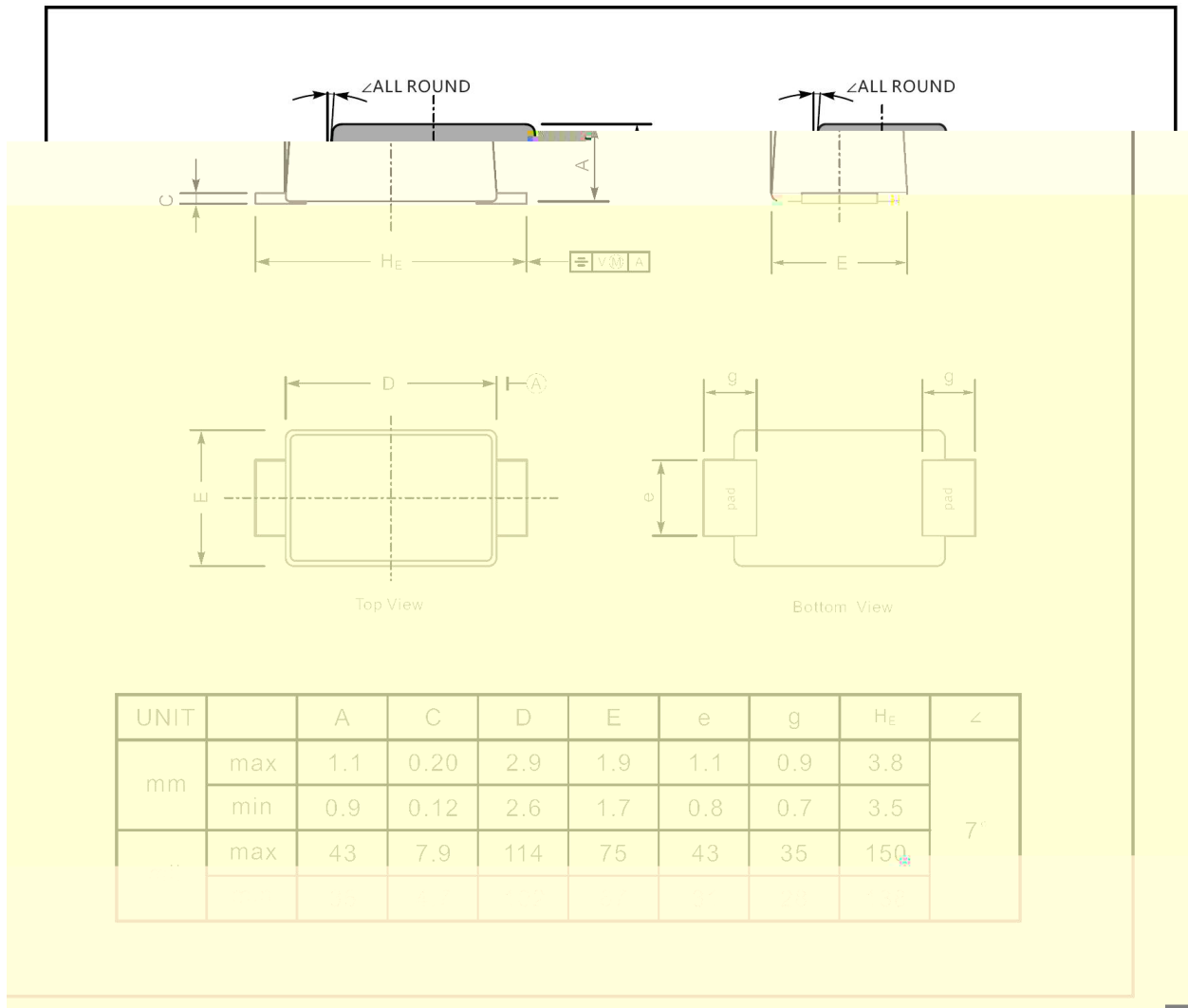
PIN	DESCRIPTION
1	Cathode
2	Anode

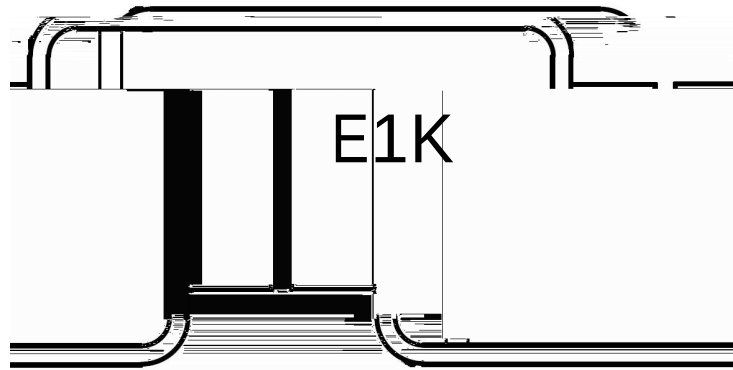
The recommended mounting pad size



See Marking Instructions.

Parameter	Symbol	Rating	Unit
		ES1KW	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS voltage	V_{RMS}	560	V
Maximum DC Blocking Voltage	V_{DC}	800	V
Maximum Average Forward Rectified Current at $T_c = 125^{\circ}\text{C}$	$I_F (AV)$	1.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30	A
Typical Junction Capacitance at $V_R=4\text{V}$, $f=1\text{MHz}$	C_j		

SOD-123FL




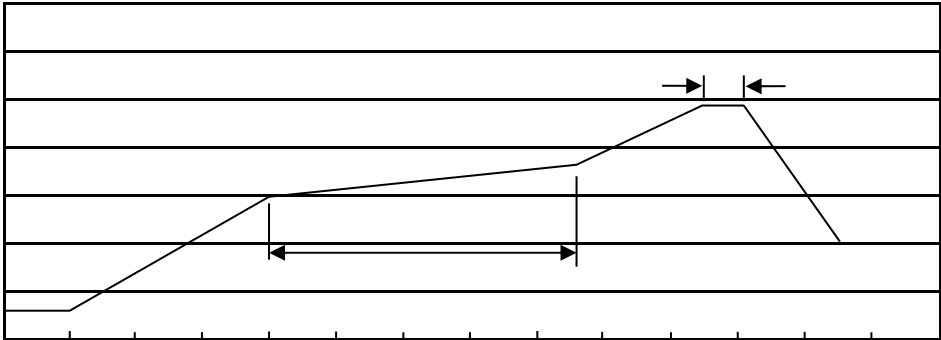
E1K

Note:

E1K Product Type Code

Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123FL	3,000	8	24,000	6	144,000	7" ×8	185×180×105	390×385×205