

A16/H61 VOLTAGE RANGE 1600 Volts

CURRENT 1.0 Ampere

Features



- Glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260°C/10S at terminals
- Component in accordance to ROHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Data

- Case: JEDEC SOD-123FL mold plastic Body over glass passivated chip
- Terminals:Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denote cathode band
- Weight: 0.00063ounce, 0.018grams

Maximum Ratings and Electrical Characteristics

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

TYPE NUMBER	CVMDOLC	A16/H61	UNITS	
Device marking code	SYMBOLS	W6		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1600	Volts
Maximum RMS Voltage		V_{RMS}	1120	Volts
Maximum DC Blocking Voltage		V _{DC}	1600	Volts
Maximum Average Forward Rectified Current	Maximum Average Forward Rectified Current			Amps
Peak Forward Surge Current 8.3mS single half sine-wave superim load (JEDEC method)	l _{FSM}	30	Amps	
Maximum Instantaneous Forward Voltage at 1.0A	$V_{\scriptscriptstyle F}$	1.1	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^{\circ}$ C $T_A = 125^{\circ}$ C	l _R	5.0 50	μΑ
Typical Junction Capacitance (NOTE 1)	C _J	15	pF	
Typical Thermal Resistance (NOTE 2)	R _{eja}	60	°C/W	
Operating Junction Temperature	T,	-55 to +150	℃	
Storage Temperature Range	T _{stg}	-55 to +150	℃	

Notes:

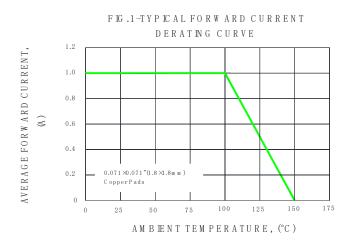
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance from Junction to Ambient at. 1.8×1.8 mm² copper pad areas.



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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)





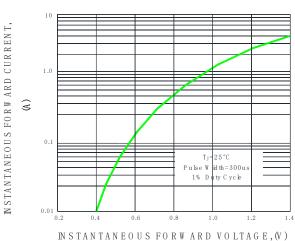
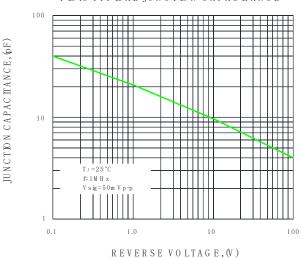


FIG.5-TYPICAL JUNCTION CAPACITANCE



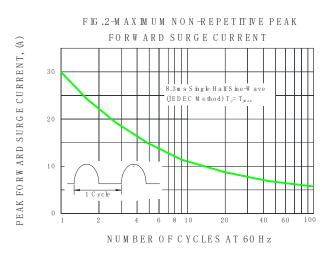
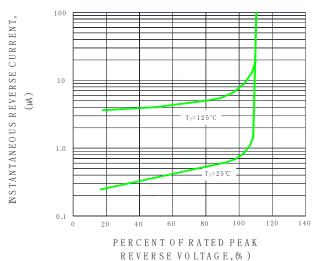


FIG.4-TYPICAL REVERSE CHARACTERISTICS



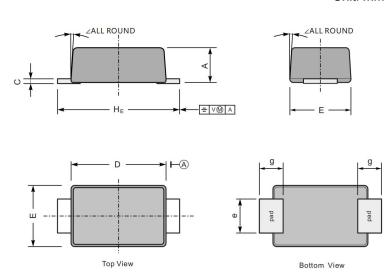


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Package Outline Dimensions in inches (millimeters)

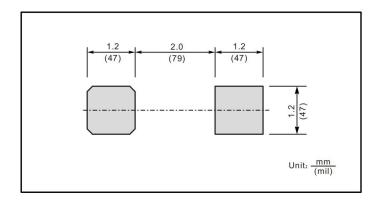


Unit: mm



UNIT		Α	C	D	Е	е	g	HE	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	
111111	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	,
11111	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size

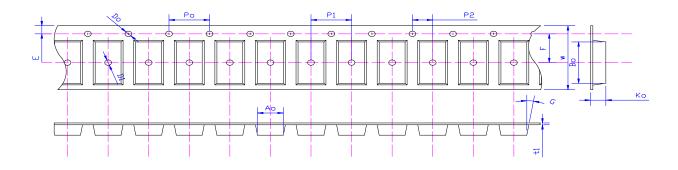




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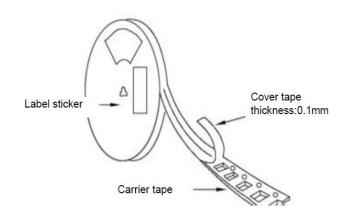
Packing Requirments

• PS black anti-static carrier tape packing



Specifications	Ao	Во	Ко	Ро	W	t1
SOD123FL	2.12±0.10	3.95±0.10	1.35±0.10	4.00±0.1	8.0±0.10	0.20±0.02

• 7 "antistatic plastic reel

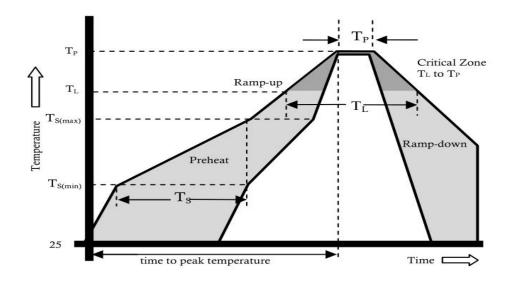


DEVICE TVDE	07" Reel					
DEVICE TYPE	Q'TY/REEL(pcs)	REEL/BOX	BOX/CARTOON	Q'TY/CARTON(pcs)		
SOD123FL	3000	4	16	192000		



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Reflow Profile



	Reflow Condition	Pb-Free Assembly		
	Temperature Min.	+150°C		
Pre Heat	Temperature Max.	+200°C		
	Time(Min to Max)	60-180 secs.		
Average ram	np up rate(Liquidus Temp(T _L) to peak)	3°C/sec. Max.		
T _s (max) to T _L - Ramp-up Rate	3°C/sec. Max.		
Reflow	Temperature (T_L) (Liquidus)	+217°C		
Reliow	Temperature (T _L)	60-150 secs.		
	Peak Temp (T₁)	+(260+0/-5)°C		
Time wit	thin 5°C of actual Peak Temp (T _P)	25 secs.		
	Ramp-down Rate	6°C/sec. Max.		
Tiı	me 25°C to peak Temp (T₂)	8 min. Max.		
	Do not exceed	+260°C		



SURFACE MOUNT GLASS PASSIVATED STANDARD RECTIFIER

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