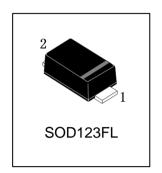


S-SOD4004T-SH

Surface Mount Glass Passivated Junction Rectifiers Voltage 400V Forward Current 1.0A

1. FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
- High temperature metallurgically bonded construction.
- Cavity-free glass passivated junction.
- Capable of meeting environmental standards of MIL-S-19500.
- 1.0 A operation at TA=75°C with no thermal runaway
- Typical IR less than 1.0μA.
- High temperature soldering guaranteed:260°C/10 seconds.
- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.





2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-SOD4004T-SH	A4T	3000/Tape&Reel

3. MAXIMUM RATINGS($Ta = 25^{\circ}C$)

Parameter	Symbol	Limits	Unit	
Maximum repetitive peak reverse voltage	VRRM	400	V	
Maximum RMS voltage	VRMS	280	V	
Maximum DC blocking voltage	VDC	400	V	
Maximum average forward rectified current lead length at TC = 75°C(Note 1)	IF(AV)	1	Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	А	
Reverse surger current(20mS)	IRSM	18	mA	
Maximum reverse recovery time (Note 1)	trr	2100	ns	
Typical thermal resistance (Note 2)	RθJA	170	°C/W	
	RθJL	40		
Operating junction temperature range	TJ	<i>–</i> 55 ∼ +150	$^{\circ}\!\mathbb{C}$	
Storage temperature range	TSTG	<i>–</i> 55 ∼ +150	$^{\circ}$	

Leshan Radio Company, LTD. Rev.A Mar. 2021 1/4



4. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

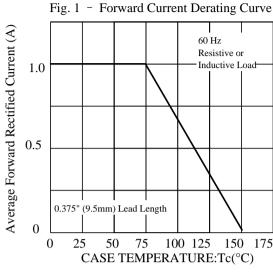
Characteristic	Symbol	Min	Тур.	Max	Unit
Maximum instantaneous forward voltage at 1.0A	VF	1	-	1.1	V
Maximum DC reverse current TJ= 25°C	ID	-	-	5	
at rated DC blocking voltage TJ = 125°C	IIX	-	-	50	μΑ
Typical junction capacitance at 4.0V, 1MHz	CJ	-	15	-	pF

^{1.} IF = 0.5A, IR = 1.0A, IRR = 0.25A

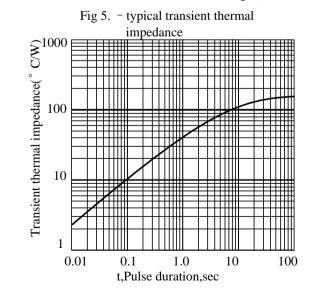
^{2. 8.0}mm² (.013mm thick) land areas

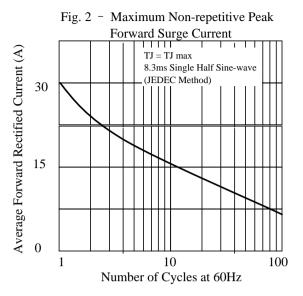


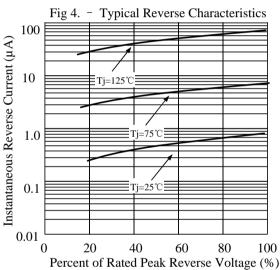
5. ELECTRICAL CHARACTERISTICS CURVES

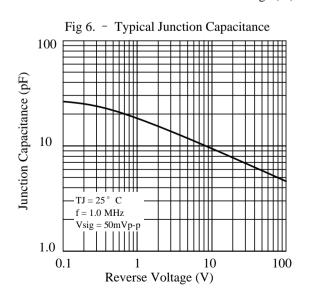


Typical Instantaneous Forward Characteristics 10 Instantaneous Forward Current (A) 1.0 0.1 TJ = 25° C 0.01 Pulse width = 300μ 0.001 0.8 1.0 1.2 1.6 0.6 1.4 Instantaneous Forward Voltage (V)



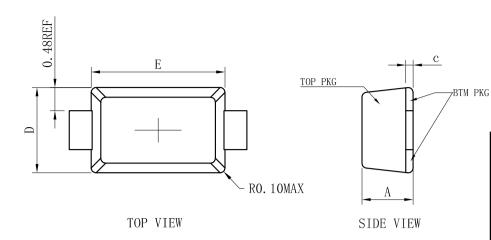


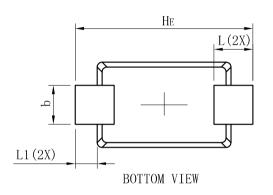






6. OUTLINE AND DIMENSIONS



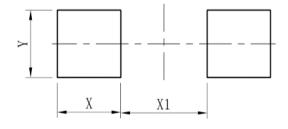


SOD123FL			
DIM	MIN	NOR	MAX
A	0.90	1.05	1.15
b	0.75	0.80	0.95
L	0.50	0.80	1.10
Е	2.60	2.75	2.90
D	1.60	1.75	1.90
HE	3.50	3.65	3.80
С	0.12	0.17	0.22
L1	0.25	0.45	0.65
All Dimensions in mm			

GENERAL NOTES

- 1. Top package surface finish RaO. 4 ± 0.2 um
- 2. Bottom package surface finish RaO. 7 ± 0 . 2um
- 3. Side package surface finish RaO. 4 ± 0 . 2um

7.SOLDERING FOOTPRINT



DIM	(mm)
Χ	1.20
Υ	1.10
X1	2.00



DISCLAIMER

- Before you use our Products, you are requested to carefully read this document and fully understand its
 contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising
 from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.