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TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

Feature

Ultra Small mold type. (SOD-323)

Low I_{R}

High reliability.

Applications

Low current rectification

Construction

Silicon epitaxial planar

Mechanical Characteristics

Lead finish:100% matte Sn(Tin)

Mounting position: Any

Qualified max reflow temperature:260 °C

Pure tin plating: 7 ~ 17 um

Pin flatness:≤3mil

Pin1 Pin2 Circuit Diagram



Electrical characteristics per line@25℃

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	0.5	0.55	V	I _F =1A
Forward voltage	V _F	-	0.43	0.48	V	I _F =0.5A
Reverse current	I _R	-	-	0.1	mA	V _R =40V
Junction	0		120		F	V _R =0V
Capacitance	C _j	-	120	-	pF	f=1MHz

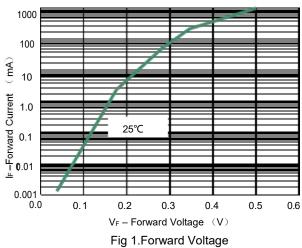
Absolute maximum rating@25℃

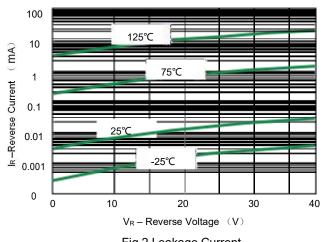
Parameter	Symbol	limits	Unit
Reverse voltage(repetitive peak)	V _{RM}	45	V
Reverse voltage (DC)	V _R	40	V
Average rectified forward current	lo	1	А



Parameter	Symbol	limits	Unit
Peak forward current(Pulse Width=1us, Single Pulse)	I _{PK}	25	А
Peak forward surge current(8.33ms 1/2sine waveform with single pulse)	Ifsм	8	А
Power Dissipation	PD	500	mW
Operating Junction temperature Range	Tj	-55 to 125	°C
Storage temperature	T _{stg}	-55 to 125	°C

Typical Characteristics

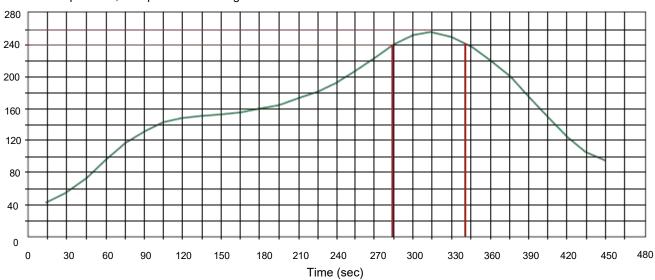




ward Voltage Fig 2.Leakage Current

Solder Reflow Recommendation

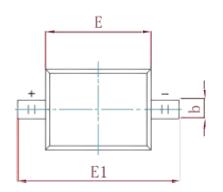
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec

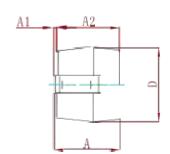


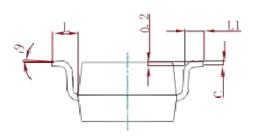






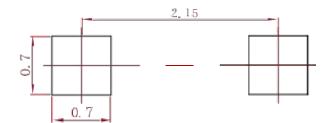






A. (1)	Dimensions	In Millimeters	Dimensions In Inche	
Symbol	Min.	Max.	Min.	Max.
Α		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475	REF.	0.019	REF.
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance ± 0.05mm. 3.The pad layout is for reference purposes only.

REEL SPECIFICATION

D/A1	DIVO	OTV
P/N	PKG	QIY
S7116-300A	SOD-323	3000



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