

SURFACE MOUNT FAST SWITCHING DIODE

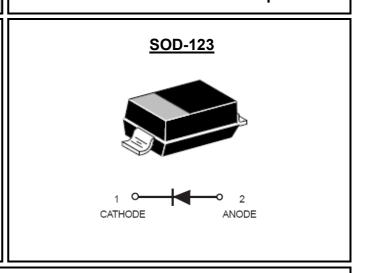
REVERSE VOLTAGE – 100 Volts FORWARD CURRENT – 0.15 Amperes

FEATURES

- · Fast switching speed
- · Ideally suited for automatic insertion
- For general purpose switching applications

MECHANICAL DATA

- Case: SOD-123 plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.), "Halogen-free"
- Moisture sensitivity: Level 1 per J-STD-020D
- Lead free in RoHS 2002/95/EC compliant
- •Marking Code: T4
- Weight : 11.67m grams (Approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		VALUE	UNIT
Non-repetitive peak reverse voltage	V_{RM}	100	V
Repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	100	V
Forward continuous current (Note 1)	I _{FM}	300	mA
Average rectified output current (Note 1)	Io	150	mA
Non-repetitive peak forward current @ t =1.0 us @ t =1.0 s	I _{FSM}	2 1	Α
Repetitive peak forward current	I _{FRM}	300	mA
Power dissipation (Note 1)	P _D	357	mW
Operation and storage temperature range	T _J ,T _{STG}	-65 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	MAX	UNIT
Forward voltage	I_F = 1 mA I_F = 10 mA I_F = 50 mA I_F = 150 mA		715 855 1000 1250	mV
Reverse leakage current	V _R = 75 V V _R = 20 V	I _R	2500 25	nA
Typical junction capacitance $V_R = 0 \text{ V}, \text{ f= } 1\text{MH}_Z$		C _D	2	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 1)	RthJ _A RthJ _C	290 200	°C/W

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	TYP.	UNIT
Reverse recovery time	IF = IR = 10 mA, Im = 0.1 x IR, RL = 100 Ω	T_{RR}	4	ns

Note:

(1) Valid provided that terminals are kept at ambient temperature

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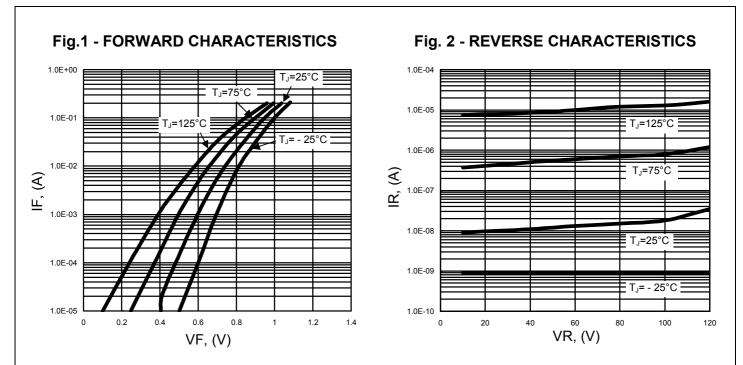
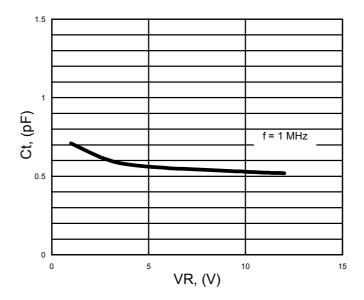


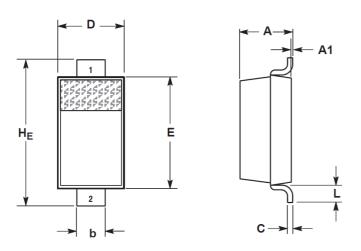
Fig.3 - CAPACITANCE





Package Dimensions :

SOD-123



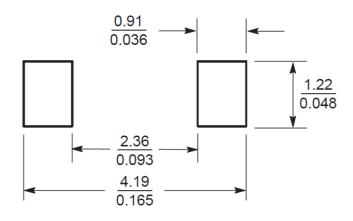
Dim.	INCHES		MILLIMETERS	
	Min.	Max.	Min.	Max.
Α	0.037	0.053	0.94	1.35
A 1	0.000	0.004	0.00	0.10
b	0.020	0.028	0.51	0.71
С		0.006		0.15
D	0.055	0.071	1.40	1.80
E	0.100	0.112	2.54	2.84
H _E	0.140	0.152	3.56	3.86
L	0.010		0.25	

Note:

PIN 1. Cathode

PIN 2. Anode

Soldering Pad Layout:



SCALE 10:1
$$\left(\frac{\text{mm}}{\text{inches}}\right)$$



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