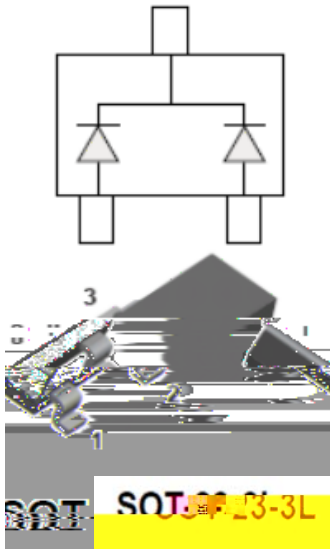


Dual Switching Diode



Features

- Moisture sensitivity level 1
- Reverse voltage 75V
- Average forward current 150mA

Application

- Signal switching
- High frequency rectifier

Mechanical data

- Package** SOT-23-3L
- Terminals** Tin plated leads, solderable per J-STD-002 and JESD22-B102

Maximum Ratings (T_a=25 Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			A4
Repetitive peak reverse voltage	V _{RRM}	V	100
Forward current	I _F	mA	150
Non-repetitive Surge peak forward current @ t=8.3ms half-sine wave	I _{FSM}	A	1
Non-repetitive Surge peak forward current @ t=1ms square wave			2
Power dissipation	P _D	mW	200
Junction temperature	T _J		-55 to +150
Storage temperature	T _{STG}		-55 to +150

**Electrical Characteristics** ($T_a=25$ Unless otherwise specified)

Parameter	Symbol	UNIT	Conditions	Min	TYP	Max
Reverse voltage	V_R	V	$I_R=2.5\mu A$	75		
Forward voltage	V_{F1}	V	$I_F=1mA$			0.715
	V_{F2}	V	$I_F=10mA$			1
	V_{F3}	V	$I_F=50mA$			1
	V_{F4}	V	$I_F=150mA$			1.25
Reverse leakage current	I_R	μA	$V_R=75V$			2.5
Junction capacitance	C_j	pF	$V_R=0V, f=1MHz$			4
Reverse recovery time	T_{rr}	ns	$I_F=10mA$ $V_R=6V, I_{rr}=1mA, R_L=100$			4

Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	$R_{J-A}^{(1)}$	$^{\circ}W$	625
Thermal resistance, junction-to-case	$R_{J-C}^{(1)}$	$^{\circ}W$	500

Note:

- 1 Device mounted on PCB, single-sided copper with standard footprint



Characteristics

Fig 1 P_D-T_a Curve

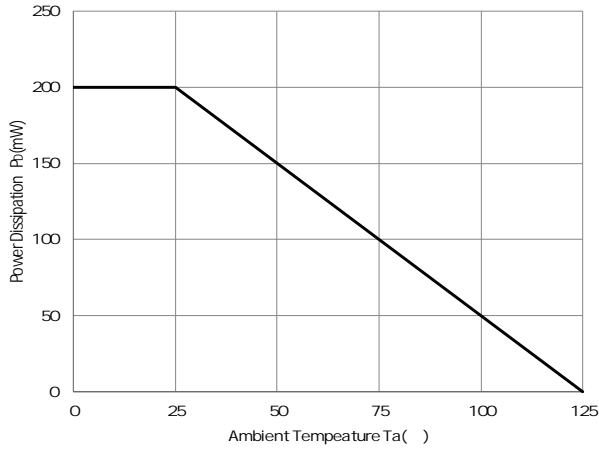


Fig 2 Capacitance Capability

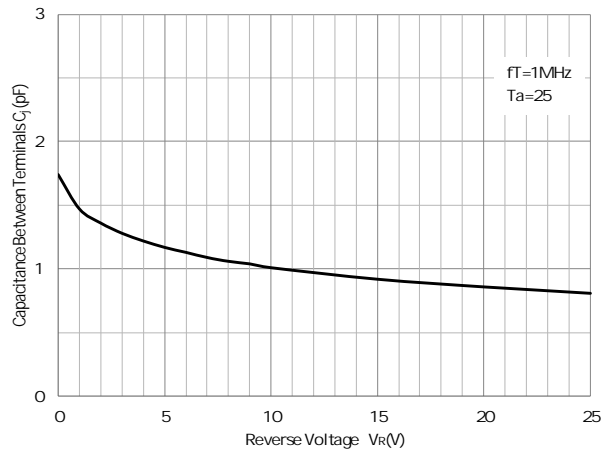


Fig 3 Typical Forward Characteristics

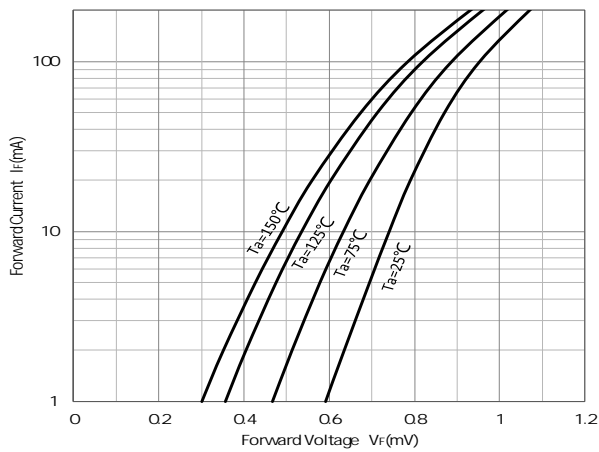
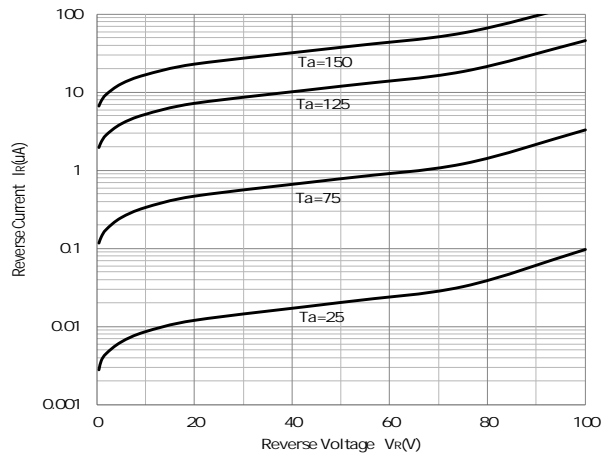


Fig 4 Typical Reverse Characteristics



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RoHS
COMPLIANT

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%%9 . \$)	\$SSUR[LPDWH				' UHH

v2XWOLQH 'LPHQVLRQV

v6XJJHVWHG 3DG /D\RXW

0³

0³

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- 0³
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- 0³

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