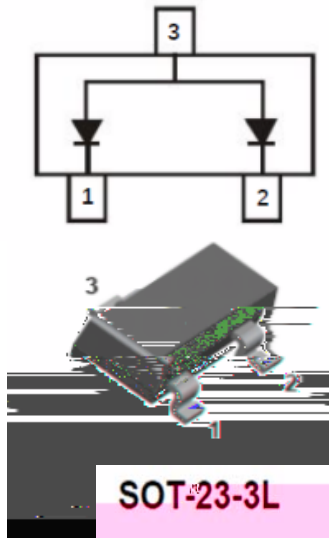


Dual Switching Diode



Features

- Moisture sensitivity level 1
- Reverse voltage 80V
- Average forward current 100mA

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			P
Repetitive peak reverse voltage	V _{RRM}	V	100
Forward current	I _F	mA	100
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



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Electrical Characteristics (T_a=25 Unless otherwise specified)

Parameter	Symbol	UNIT	Conditions	Min	TYP	Max
Reverse voltage	V _R	V	I _R =100uA	80		
Forward voltage	V _F	V	I _F =100mA			1.2
Reverse leakage current	I _R	nA	V _R =70V			100
Junction capacitance	C _j	pF	V _R =6V, f=1MHz			3.5
Reverse recovery time	T _{rr}	ns	I _F =I _R =10mA I _{rr} =0.1*IR, R _L =100			4

Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{J-A} ⁽¹⁾	/W	625
Thermal resistance, junction-to-case	R _{J-C} ⁽¹⁾	/W	500

Note:

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

Characteristics

Fig 1 P_b-T_a Curve

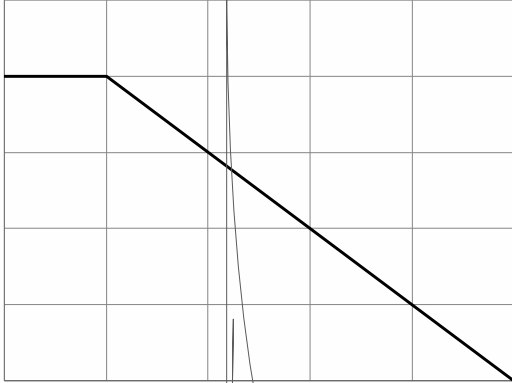


Fig 2 Capacitance Capability

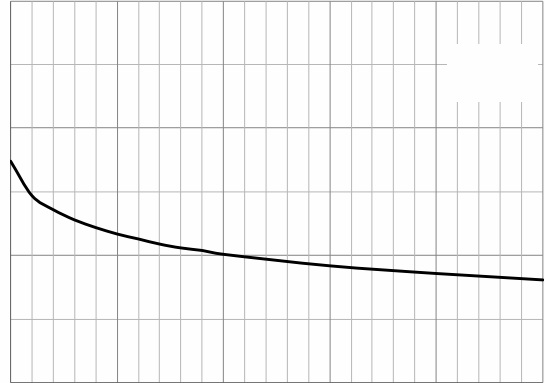


Fig 3 Typical Forward Characteristics

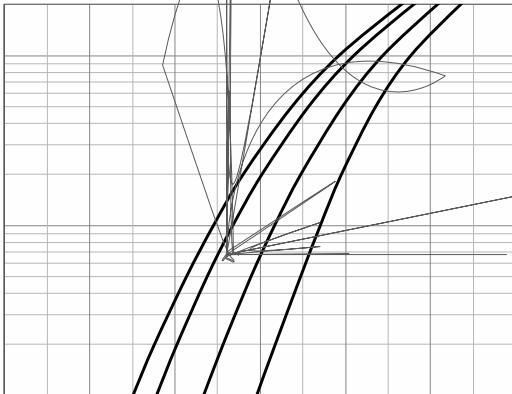


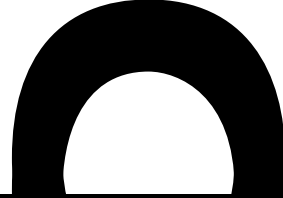
Fig 4 Typical Reverse Characteristics



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Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity (pcs)	Delivery mode
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