



## Dual Switching Diode

### Features

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

### Mechanical data

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

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<sub>a</sub>=25 Unless otherwise specified)

Parameter	Symbol	UNIT	Conditions	Min	TYP	Max
Reverse voltage	V <sub>R</sub>	V	I <sub>R</sub> =100uA	80		
Forward voltage	V <sub>F</sub>	V	I <sub>F</sub> =100mA			1.2
Reverse leakage current	I <sub>R</sub>	nA	V <sub>R</sub> =70V			100
Junction capacitance	C <sub>j</sub>	pF	V <sub>R</sub> =6V, f=1MHz			3.5
Reverse recovery time	T <sub>rr</sub>	ns	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>rr</sub> =0.1*I <sub>R</sub> , R <sub>L</sub> =100			4

## Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R <sub>J-A</sub> <sup>(1)</sup>	/W	625
Thermal resistance, junction-to-case	R <sub>J-C</sub> <sup>(1)</sup>	/W	500

### Note:

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

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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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