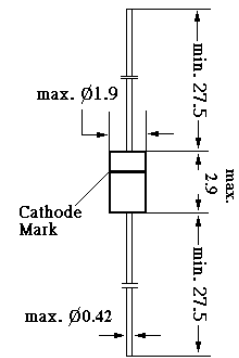


1N4531, 1N4532

SILICON EPITAXIAL PLANAR DIODES

Fast Switching Diode .

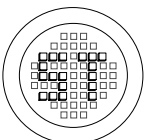


Glass case JEDEC DO-34

Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	75	V
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-repetitive Peak Forward Current $T_j = 25^\circ\text{C}$			
at $t = 1\mu\text{S}$	I_{FSM}	4	A
at $t = 1\text{mS}$	I_{FSM}	1	A
at $t = 1\text{S}$	I_{FSM}	0.5	A
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	P_{tot}	500	mW
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature Range	T_s	-65 to +200	$^\circ\text{C}$



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РАДИОТЕХ

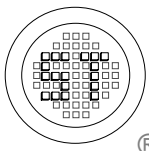
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1N4531, 1N4532

Characteristics at $T_j = 25^\circ\text{C}$

		Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 10\text{mA}$		V_F	-	-	1000	mV
Reverse Current at $V_R = 20\text{V}$	1N4531	I_R	-	-	25	nA
at $V_R = 50\text{V}$	1N4532	I_R	-	-	100	nA
at $V_R = 20\text{V}, T_j = 150^\circ\text{C}$	1N4531	I_R	-	-	50	μA
at $V_R = 50\text{V}, T_j = 150^\circ\text{C}$	1N4532	I_R	-	-	100	μA
Diode Capacitance at $f = 1\text{MHz}$	1N4531	C_d	-	-	4	pF
	1N4532	C_d	-	-	2	pF
Reverse Recovery Time at $I_F = 10\text{mA}, I_R = 60\text{mA}, R_L = 100\Omega$	1N4531	t_{rr}	-	-	4	ns
	1N4532	t_{rr}	-	-	2	ns
at $I_F = 10\text{mA}, I_R = 10\text{mA}, R_L = 100\Omega$	1N4532	t_{rr}	-	-	4	ns
Forward Recovery Voltage at $I_F = 100\text{mA}, t_r \leq 30\text{ns}$		V_{fr}	-	-	3	V
Thermal Resistance from Junction to tie-point at lead length 5mm		R_{thjtp}	-	-	120	K/W
Thermal Resistance from Junction to ambient at lead length 5mm (Note 1)		R_{thja}	-	-	350	K/W

Note: 1. Device mounted on a printed circuit-board without metallization pad.



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
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ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

Dated : 25/10/2002