

**Guangdong Yuejing  
High Technology CO.,LTD.**

**1N4148**

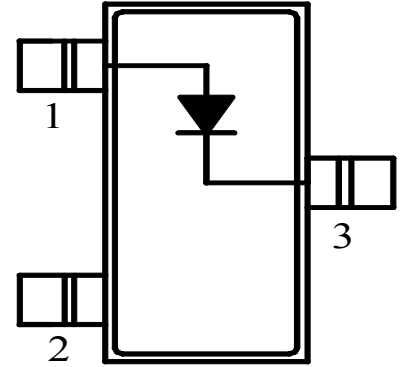
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SOT-23

■■ APPLICATION: COMMUTATED APPLICATION,  
SWITCHING APPLICATION.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Reverse Peak Voltage	$V_{RM}$	100	V
Reverse Voltage	$V_R$	80	V
Forward Peak Current	$I_{FM}$	300	mA
Operate Current	$I_o$	100	mA
Non-repetitive Peak Forward Current	$I_{FSM}$	500	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_J$	125	°C
Storage Temperature Range	$T_{stg}$	- 55~125	°C



1. Anode 2. Empty 3. Cathode

■■ ELECTRICAL CHARACTERISTICS

(Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	$V_F$			1.2	V	$I_F = 100 \text{ mA}$
Breakdown Voltage	$V_{(BR)}$	100			V	$I_R = 100 \mu\text{A}$
Reverse Reavery Time	$I_{R1}$			0.025	$\mu\text{A}$	$V_R = 30\text{V}$
	$I_{R2}$			10	$\mu\text{A}$	$V_R = 100\text{V}$
Capacitance	$C_T$			3.5	pF	$V_R = 6\text{V}, f = 1\text{MHz}$
Reverse Recovery Time	$t_{rr}$			4	ns	$V_R = 5\text{V}, I_F = 10\text{mA}, R_L = 500\Omega$

■■ Marking

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