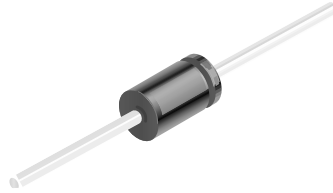


# 1S922/1S923



**DO-35**

Color Band Denotes Cathode

## Small Signal Diode

### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Value	Units	
$V_{RRM}$	Maximum Repetitive Reverse Voltage	<b>1S922</b>	150	V
		<b>1S923</b>	200	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA	
$I_{FSM}$	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	1.0	A	
		4.0	A	
$T_{stg}$	Storage Temperature Range	-65 to +200	$^\circ\text{C}$	
$T_J$	Operating Junction Temperature	175	$^\circ\text{C}$	

\* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

**NOTES:**

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

### Thermal Characteristics

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	500	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	300	$^\circ\text{C}/\text{W}$

### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Conditions	Min	Max	Units
$V_R$	Breakdown Voltage	<b>1S922</b>	$I_R = 5 \mu\text{A}$	150	V
		<b>1S923</b>	$I_R = 5 \mu\text{A}$	200	V
$V_F$	Forward Voltage	$I_F = 200 \text{ mA}$		1.2	V
$I_R$	Reverse Current	<b>1S922</b>	$V_R = 150 \text{ V}$	100	nA
			$V_R = 150 \text{ V}, T_A = 150^\circ\text{C}$	50	$\mu\text{A}$
		<b>1S923</b>	$V_R = 200 \text{ V}$	100	nA
			$V_R = 200 \text{ V}, T_A = 150^\circ\text{C}$	50	$\mu\text{A}$