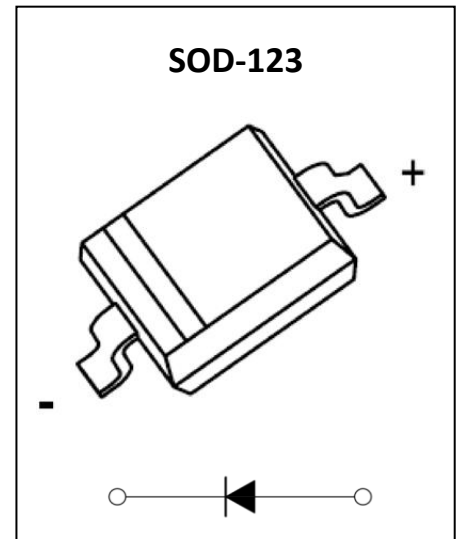


**1N4148W Fast Switching Diodes**
**Feature**

- $V_R$  75V
- $I_{FAV}$  150mA

**Application**

- Extreme fast switches

**MARKING:**

**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$  unless otherwise noted)**

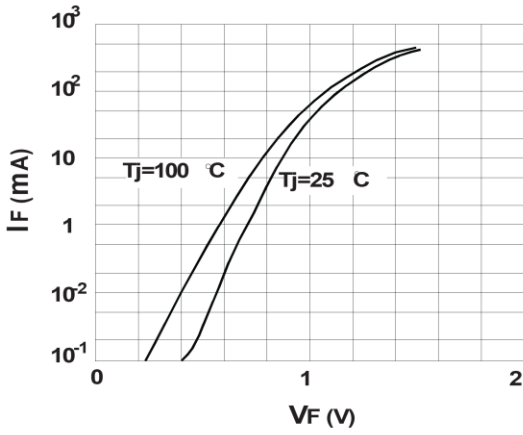
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	100	V
Repetitive Peak Reverse Voltage	$V_{RRM}$	75	V
Average rectified output current	$I_O$	0.15	A
Forward continuous current	$I_{FM}$	0.30	A
Non-repetitive Peak Forward Surge Current @ $t=1$ us	$I_{FSM}$	2	A
Non-repetitive Peak Forward Surge Current @ $t=1$ s		1	A
Power Dissipation	$P_D$	0.4	W
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-65 ~ +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$  unless otherwise noted)**

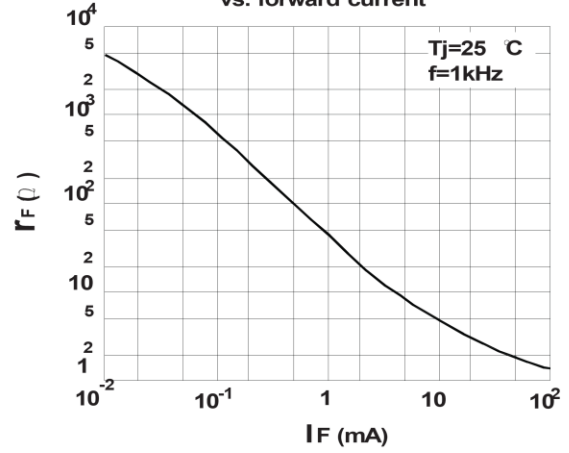
Parameter	Symbol	Test Condition	Min	Max	Unit
Forward voltage	$V_F$	$I_F = 1\text{mA}$		0.715	V
		$I_F = 10\text{mA}$		0.855	V
		$I_F = 50\text{mA}$		1.0	V
		$I_F = 150\text{mA}$		1.25	V
Reverse current	$I_R$	$V_R = 20\text{V}$		25	nA
		$V_R = 75\text{V}$		1	$\mu\text{A}$
Diode capacitance	$C_D$	$V_R=0\text{V}, f=1\text{MHz}$		2	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		4	ns

**Typical Electrical and Thermal Characteristics**

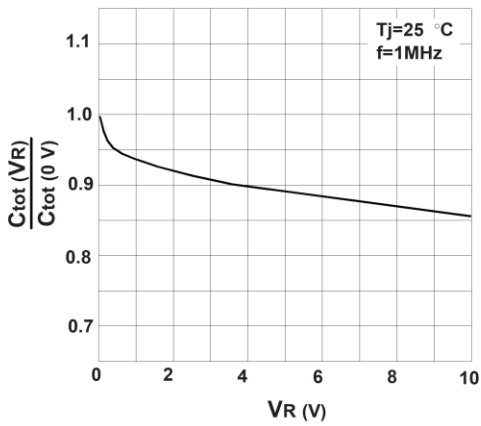
Forward characteristics



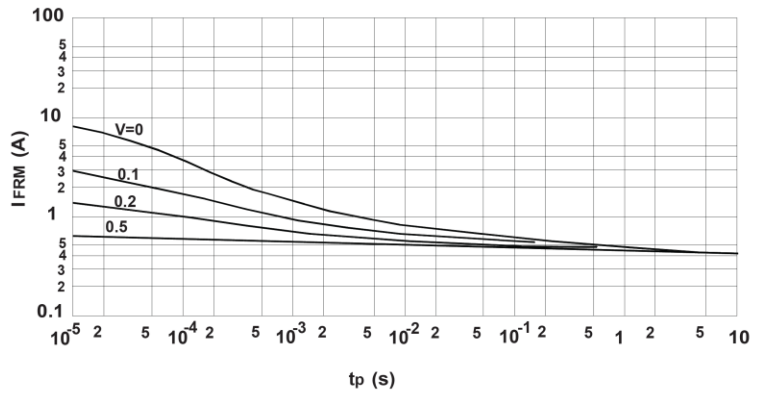
Dynamic forward resistance vs. forward current

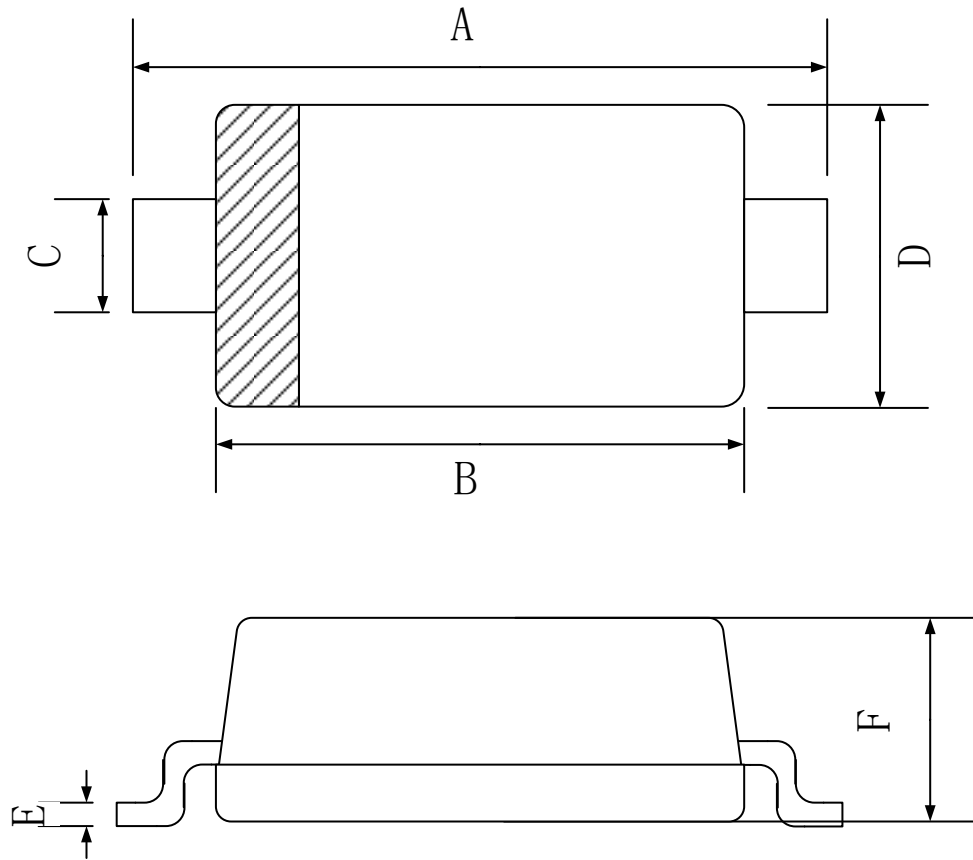


Reverse capacitance vs. reverse voltage



Ammissible repetitive peak forward current vs. pulse duration



**SOD-123 Package Outline Dimensions**


Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	3.45	3.65	3.85
B	2.55	2.65	2.75
C	0.45	0.55	0.65
D	1.50	1.60	1.70
E	0.09	0.105	0.12
F	0.95	1.15	1.35

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)