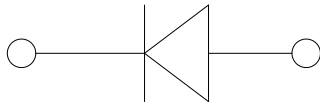
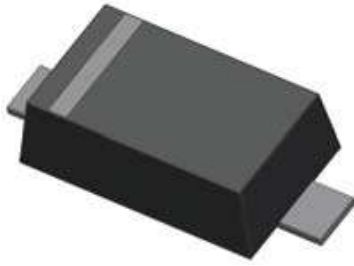


Small-Signal Fast Switching Diodes



Features

- V_R 100V
- $I_{F(AV)}$ 150mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOD523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** T4

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		100
Reverse voltage	V_R	V	$I_R=100\mu\text{A}$	100
Peak forward surge current	I_{FSM}	A	Pulse width=1 μs Pulse width=1 s	2 1
Average forward current	I_{FAV}	mA		150
Power dissipation	P_{tot}	mW		150
Maximum junction temperature	T_j	$^\circ\text{C}$		-55 to +150
Storage temperature range	T_{stg}	$^\circ\text{C}$		-55 to +150

■Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=100\mu\text{A}$	100	
Forward Voltage	V_F	V	$I_F=5\text{mA}$		0.715
			$I_F=10\text{mA}$		0.855
			$I_F=100\text{mA}$		1.00
			$I_F=150\text{mA}$		1.25
Reverse Leakage Current	I_{R1}	nA	$V_R=20\text{V}$		25
	I_{R2}	μA	$V_R=75\text{V}$		1
Capacitance	C	pF	$V_R=0\text{V}, f=1\text{MHz}$		4
Reverse Recovery Time	T_{rr}	ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		4



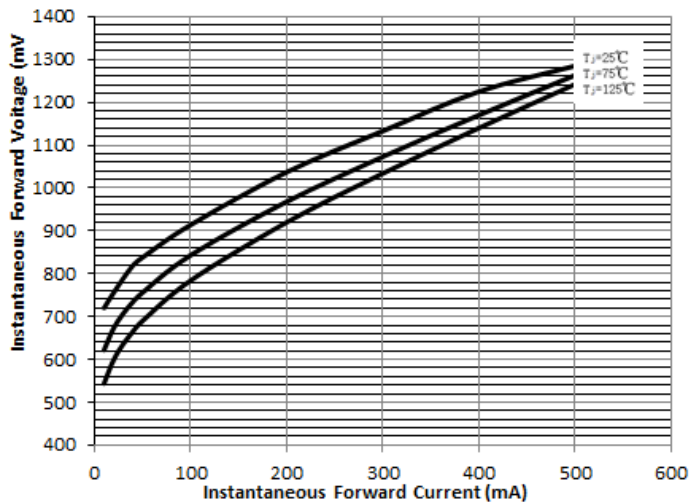
1N4148WT

■ Ordering Information (Example)

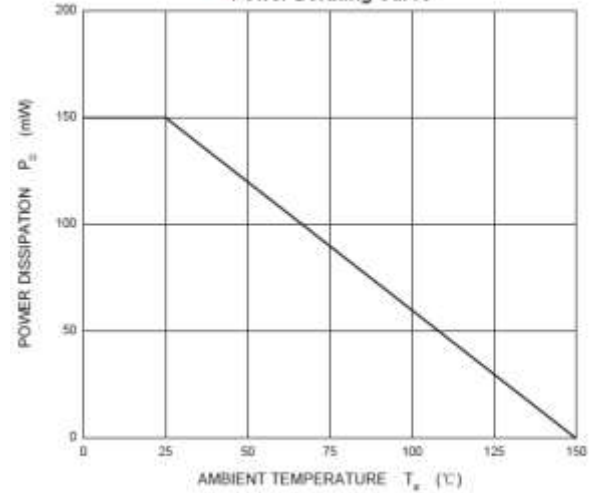
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4148WT	F2	Approximate 0.002	8000	80000	320000	7" reel

■ Characteristics (Typical)

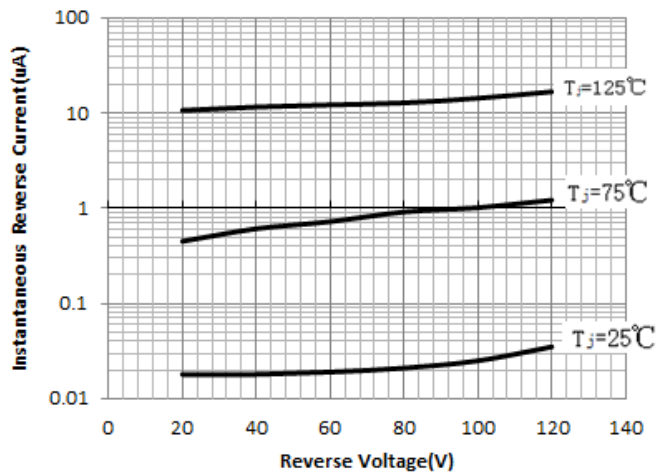
Typical Instantaneous Forward Characteristics



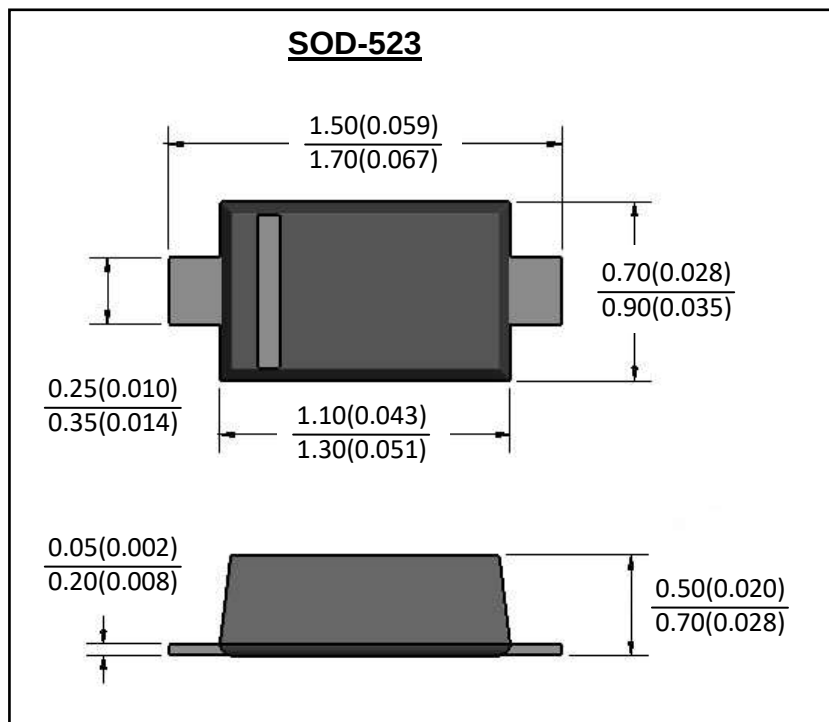
Power Derating Curve



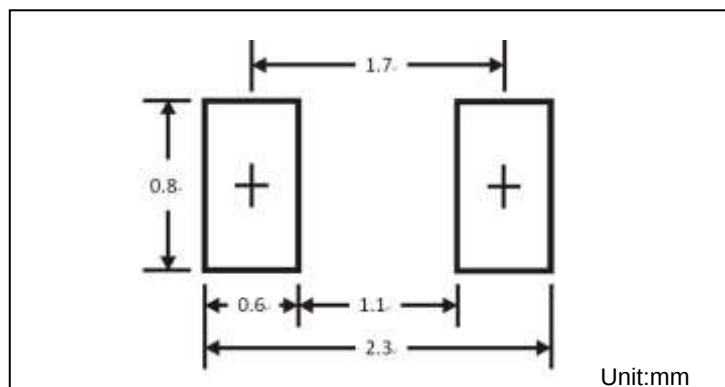
Typical Reverse Characteristics



■ Outline Dimensions



■ Soldering Footprint





Disclaimer

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