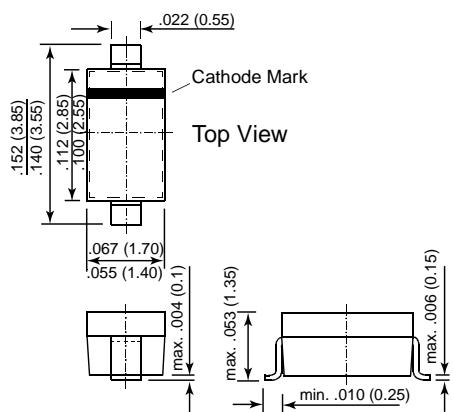


NEW PRODUCT**NEW PRODUCT****NEW PRODUCT**

GSD2004SW

SMALL SIGNAL DIODES

SOD-123

Dimensions in inches and (millimeters)

FEATURES

- ◆ Silicon Epitaxial Planar Diode
- ◆ Fast switching dual in-series diode, especially suited for applications requiring high voltage capability

**MECHANICAL DATA****Case:** SOD-123 plastic case**Weight:** approx. 0.01 g**Marking Code:** DB6**MAXIMUM RATINGS AND THERMAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified (per diode)

	SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	V _R	240	Volts
Peak Repetitive Reverse Voltage	V _{RRM}	300	Volts
Peak Repetitive Reverse Current	I _o	200	mA
Continuous Forward Current	I _F	225	mA
Peak Repetitive Forward Current	I _{RFM}	625	mA
Non-Repetitive Peak Forward Current at t _p = 1 μs at t _p = 1 s	I _{FSM} I _{FSM}	4.0 1.0	A A
Power Dissipation	P _{tot}	350	mW
Maximum Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-65 to +150	°C
Typical Thermal Resistance Junction to Ambient Air	R _{θJA}	357	°C/W

GSD2004SW

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified (per diode).

	<i>SYMBOL</i>	<i>MIN.</i>	<i>TYP.</i>	<i>MAX.</i>	<i>UNIT</i>
Reverse Breakdown Voltage at $I_R = 100\mu A$	V_{BR}	300	-	-	Volts
Leakage Current at $V_R = 240 V$ at $V_R = 240 V, T_j = 150^\circ C$	I_R	-	-	100	nA
	I_R	-	-	100	μA
Forward Voltage at $I_F = 20 mA$ at $I_F = 100 mA$	V_F	-	0.83	0.87	Volts
	V_F	-	-	1.00	Volts
Capacitance at $V_F = V_R = 0; f = 1MHz$	C_{tot}	-	-	5.0	pF
Reverse Recovery Time $I_F = I_A = 30 mA, I_{rr} = 3.0 mA$ $R_L = 100 \Omega$	t_{rr}	-	-	50	ns