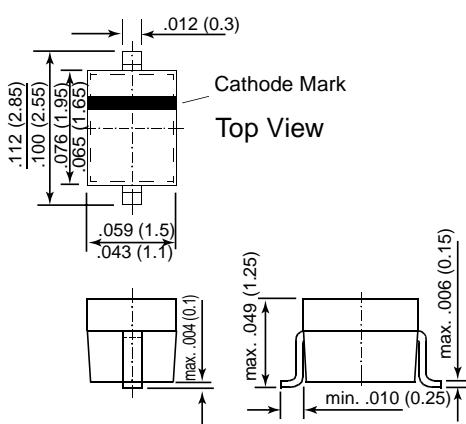


NEW PRODUCT**NEW PRODUCT****NEW PRODUCT**

SD104AWS THRU SD104CWS

SCHOTTKY DIODES

SOD-323

Dimensions in inches and (millimeters)

FEATURES

- ◆ Low turn-on voltage
- ◆ Low capacitance
- ◆ Ultrafast switching
- ◆ Microminiature plastic package
- ◆ Single, double, and ring balanced mixer in narrow-band receivers up to 1 GHz
- ◆ Detectors and fast switching up to 1 GHz
- ◆ Phase detectors
- ◆ Suitable for radios, TV, CTV, and hyper band tuners

**MECHANICAL DATA****Case:** SOD-323 Plastic Package**Weight:** approx. 0.004g**MAXIMUM RATINGS AND THERMAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified

		SYMBOL	VALUE	UNIT
Continuous Reverse Voltage	SD104AWS	VR	20	Volts
	SD104BWS	VR	15	Volts
	SD104CWS	VR	10	Volts
Forward Current		IF	30	mA
Power Dissipation Tc= 25°C		Ptot	150 (NOTE 1)	mW
Junction Temperature		Tj	125	°C
Storage Temperature Range		Ts	-55 to + 150	°C
Thermal Resistance Junction to Ambient Air		RθJA	650 (NOTE 1)	K/W

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature

SD104AWS THRU SD104CWS

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage at $I_R = 10 \mu A$	SD104AWS	V_R	20	-	-	Volts
	SD104BWS	V_R	15	-	-	Volts
	SD104CWS	V_R	10	-	-	Volts
Leakage Current at $V_R = 15 V$ at $V_R = 10 V$ at $V_R = 5 V$	SD104AWS	I_R	-	-	500	nA
	SD104BWS	I_R	-	-	500	nA
	SD104CWS	I_R	-	-	500	nA
Forward Voltage at $I_F = 0.1 mA$ at $I_F = 1.0 mA$ at $I_F = 10 mA$	SD104AWS	V_F	-	-	350	mV
	SD104BWS	V_F	-	-	325	mV
	SD104CWS	V_F	-	-	310	mV
	SD104AWS	V_F	-	-	450	mV
	SD104BWS	V_F	-	-	425	mV
	SD104CWS	V_F	-	-	400	mV
	SD104AWS	V_F	-	-	600	mV
	SD104BWS	V_F	-	-	580	mV
	SD104CWS	V_F	-	-	565	mV
Diodes Capacitance at $V_R = 0 V$, $f = 1 MHz$	SD104AWS	C_D	-	-	0.8	pF
	SD104BWS	C_D	-	-	0.9	pF
	SD104CWS	C_D	-	-	1.0	pF

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature