

# Zero Bias Schottky Detectors

## Model STZ118, 1 to 18 GHz



### Features

- No Bias Required
- Metallurgically Bonded Diode
- Miniature Size
- Usable to 20 GHz and Above



### Typical Performance @ Room Ambient

Voltage Sensitivity	1500 mV/mW Min.
Flatness	$\pm 1.0$ dB Max.
$T_{SS}$ (2 MHz BW)	- 48 dBm Min.
Output Capacitance (Typical)	20 pF
Video Resistance	3000 ohms, Nominal
Maximum RF Power (CW)	+ 20 dBm
Temperature Sensitivity	$\pm 2.5$ dB, -50°C to +125°C Typ
Output Polarity – STZ118	Negative
– STZ118P	Positive
Weight	7 grams
Outline Drawing	B2

For outline drawings, see page 22.

### Environmental Ratings

Storage Temperature	-55°C to +125°C
Operating Temperature	-55°C to +125°C
Temperature Cycling	-55°C to +125°C
Shock	1500g, 0.5 msec 50g, 11 msec
Vibration	20g, 100 - 2000 Hz
Acceleration	2000g
Maximum Power	
CW	200 mW
Pulsed 1 $\mu$ sec/1 KHz	1 W
Weight	7 Grams