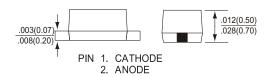
PSD520S thru PSD521S

SURFACE MOUNT SCHOTTKY BARRIER DIODES

SMALL SIGNAL SCHOTTKY DIODES 200m AMPERES 30 VOLTS



SOD-523



FEATURES

- Extremely High Switching Speed
- · Low Forward Voltage and Low Reverse Current
- · High Reliability.
- Schottky Barrier Diodes Encapsulated in a SOD-523 Package

DESCRIPTION

These schottky barrier diodes are designed for high speed Switching applications circuit protection, and voltage clamping, Extremely low forward voltage reduces conduction loss, Miniature surface mount package is excellent for hand held and Portable applications where space is limited

MAXIMUM RATING (TA=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	30	Volts
Average Rectified Forward Current	I _F (AV)	200	mA
Peak Forward Surge Current ⁽¹⁾	IFSM	1.0	A
Operating Junction Temperature Range	T _J	125	°C
Storage Temperature Range	T _{stg}	-40 to +125	°C

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	Min	Max	UNITS
Reverse Breakdown Voltage ($l = 100 \mu A$)	V _{(BR)R}	30		Volts
Forward Voltage IF = 200mA PSD520S PSD521S	VF		0.60 0.50	Volts
Reverse Leakage V _R = 10V PSD520S PSD521S	lr		1.0 30.0	μ Adc

NOTE:

1. 60Hz for 1 ←

Device Marking

Item	Eqivalent Circuit diagram
PSD520S/PSD521S	1 0



PSD520S thru PSD521S

SURFACE MOUNT SCHOTTKY BARRIER DIODES

RATING AND CHARACTERISTICS CURVES PSD520S THRU PSD521S

Electrical characteristic curves (Ta = 25°C)

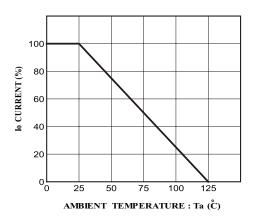


Fig 1. Derating curve (mounting on glass epoxy PCBs)

PSD520S/PSD521S

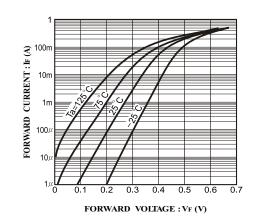


Fig. 2 Forward characteristics

PSD520S/PSD521S

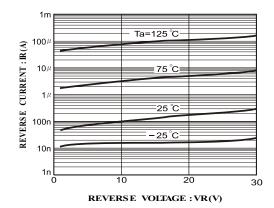


Fig. 3 Reverse characteristics

PSD520S/PSD521S

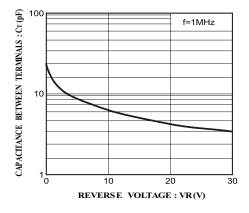


Fig. 4 Capacitance between terminals characteristics

