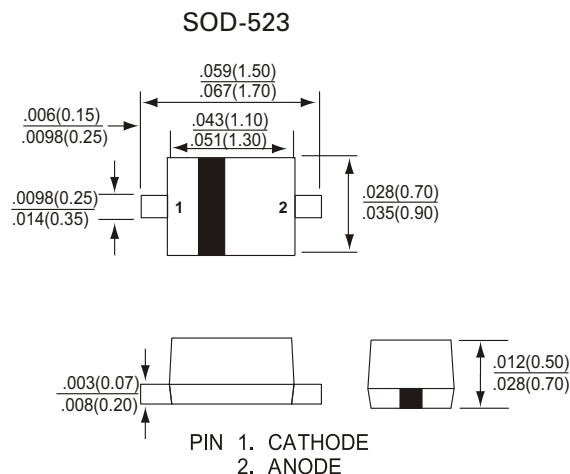


# PSD751S

## SURFACE MOUNT ZENER DIODES

### SMALL SIGNAL SCHOTTKY DIODES 30m AMPERES 40 VOLTS



### 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 (T<sub>A</sub>=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V <sub>RM</sub>	40	Volts
DC Reverse Voltage	V <sub>R</sub>	30	Volts
Average Rectified Forward Current	I <sub>F(AV)</sub>	30	mA
Peak Forward Surge Current <sup>(1)</sup>	I <sub>FSM</sub>	200	mA
Operating Junction Temperature Range	T <sub>J</sub>	-40 to +125	°C
Storage Temperature Range	T <sub>stg</sub>		

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	Min	T <sub>yp</sub>	Max	UNITS
Reverse Breakdown Voltage (I <sub>R</sub> = 100 μA)	V <sub>(BR)R</sub>	30	–	–	Volts
Forward Voltage I <sub>F</sub> = 1.0mA	V <sub>F</sub>	–	–	0.37	Volts
Reverse Leakage V <sub>R</sub> = 30V	I <sub>R</sub>	–	–	0.5	μA dc
Capacitance Between Terminals V <sub>R</sub> = 1V, f = MHz	C <sub>J</sub>	–	2.0	–	pF

NOTE :  
1. 60Hz for 1 $\infty$

### Device Marking

Item	Equivalent Circuit diagram
PSD751S	1 $\circ$ $\leftarrow$ $\rightarrow$ $\circ$ 2

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### Electrical Characteristic Curves ( $T_a=25^\circ\text{C}$ )

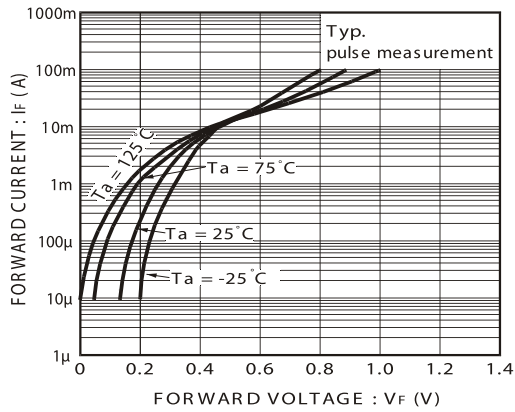


Fig. 1 Forward characteristics

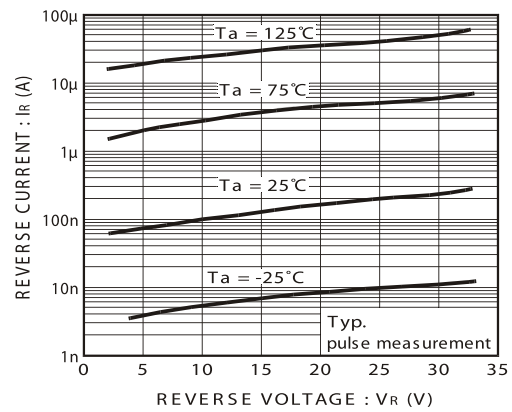


Fig. 2 Reverse characteristics

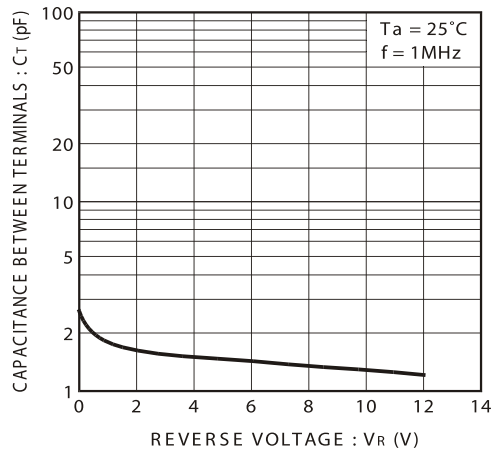


Fig. 3 Capacitance between terminals characteristics