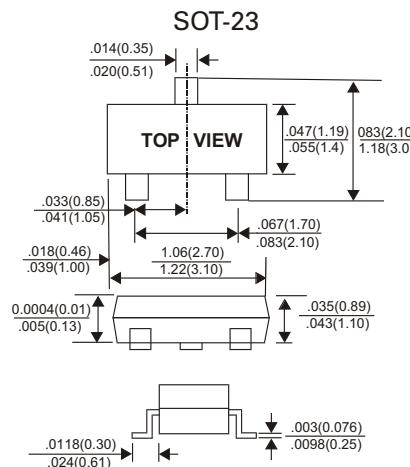


# PSD705 thru PSD706

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

SMALL SIGNAL SCHOTTKY DIODES 30m AMPERES 40 VOLTS



### FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage
- Very Small Conduction Losses
- Schottky Barrier Diodes Encapsulated in a SOT-23 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 ( $T_J=25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	PSD705 / PSD706	UNITS
Reverse Voltage	$V_R$	40	Volts
Average Rectified Forward Current	$I_{F(AV)}$	30	mA
Peak Rectified Forward Current Rated $V_R$ , Square Wave, 20KHz	$I_{FSM}$	200	mA
Operating Junction Temperature Range	$T_J$	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	Min	Typ	Max	UNITS
Reverse Breakdown Voltage ( $I_R = 100 \mu\text{A}$ )	$V_{(BR)R}$	40	-	-	Volts
Forward Voltage $I_F = 1.0\text{mA}$	$V_F$	-	-	0.37	Volts
Total Capacitance $(V_R = 1.0\text{V}, f = 1.0\text{MHz})$	$C_T$	-	2.0	-	pF
Reverse Leakage $V_R = 10\text{V}$	$I_R$	-	-	1.0	$\mu\text{A dc}$

### Device Marking

Item	Equivalent Circuit diagram
PSD705	
PSD706	

# PSD705 thru PSD706

## SURFACE MOUNT SCHOTTKY BARRIER DIODES

Electrical characteristic curves ( $T_a = 25^\circ\text{C}$ )

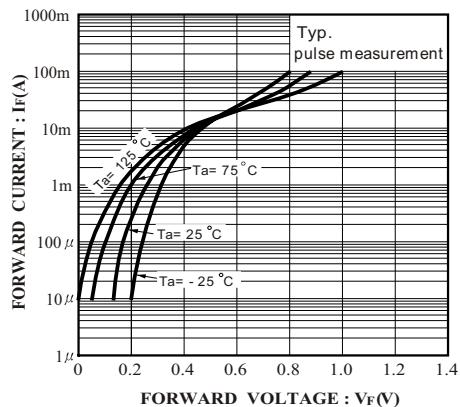


Fig. 1 Forward characteristics

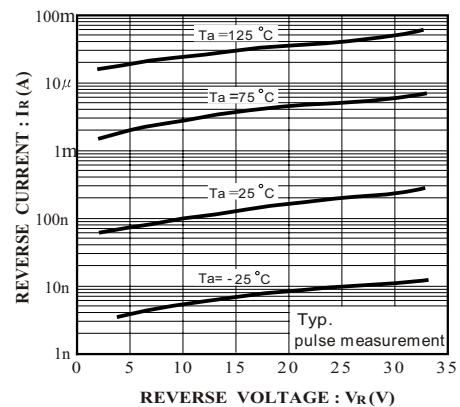


Fig. 2 Reverse characteristics

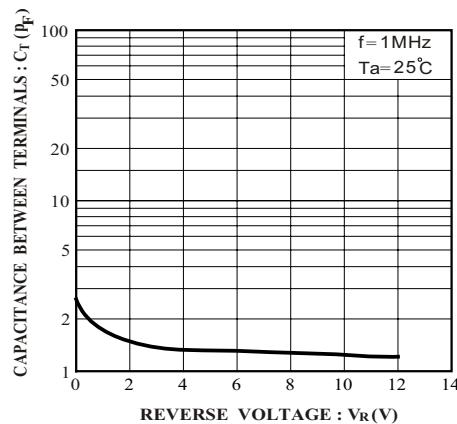


Fig. 3 Capacitance between terminals characteristics