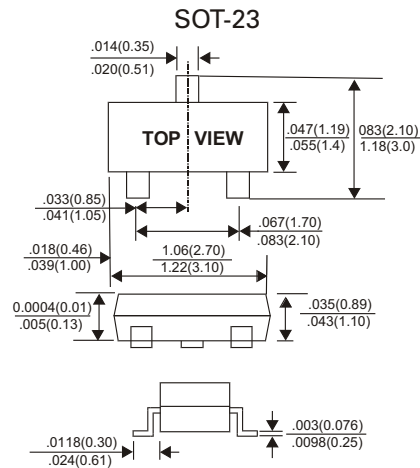


PSD420

SURFACE MOUNT ZENER DIODES

SMALL SIGNAL SCHOTTKY DIODES 100m AMPERES 40 VOLTS



FEATURES

- Low Power Rectification
- Small Surface Mounting Type
- Low IR ($I_R = 50\text{nA}$ Type)
- High Reliability

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

CHARACTERISTICS	SYMBOL	LIMITS	UNITS
Peak Reverse Voltage	V_{RM}	40	Volts
DC Reverse Voltage	V_R	40	Volts
Mean Rectified Current	I_O	100	mA
Peak Forward Surge Current ⁽¹⁾	I_{FSM}	1	A
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	Min	Typ	Max	UNITS
Forward Voltage $I_F = 10\text{mA}$	V_F	-	-	0.45	Volts
Reverse Current, $V_R = 10\text{V}$	I_R	-	-	1	μA
Capacitance Between Terminals $V_R = 10\text{V}$ $f = 1\text{MHz}$	C_T	-	6.0	-	pF

NOTE :
1. 60Hz for 1ω

Device Marking

Item	Equivalent Circuit diagram
PSD420	3 1

PSD420

SURFACE MOUNT ZENER DIODES

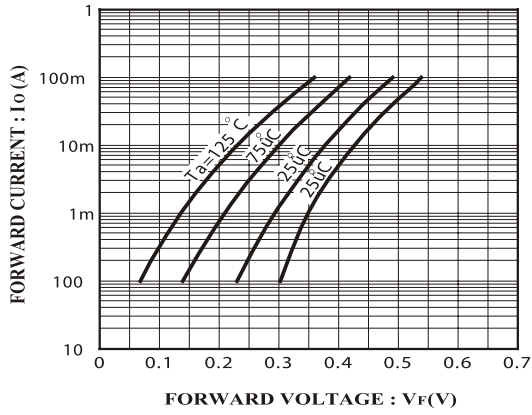


FIG1. Forward characteristics

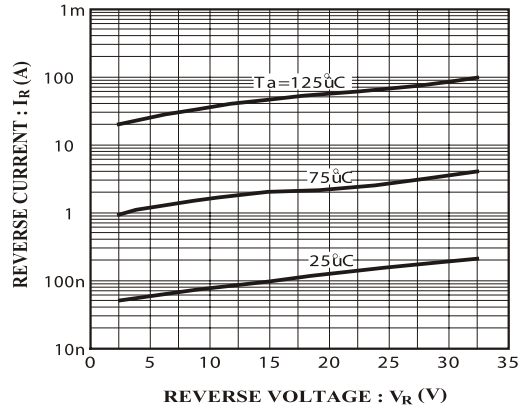


FIG2. Reverse characteristics

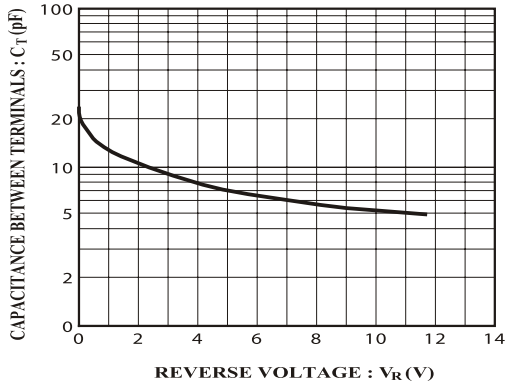


FIG3. Capacitance between terminals characteristics

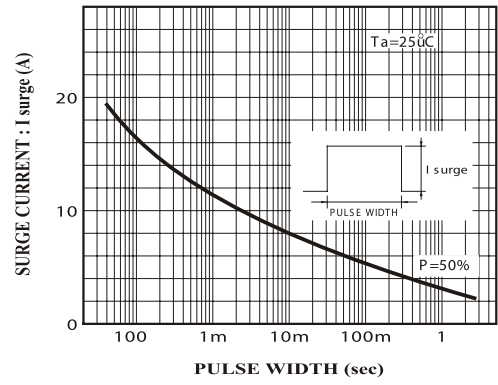


FIG4. Surge current characteristics

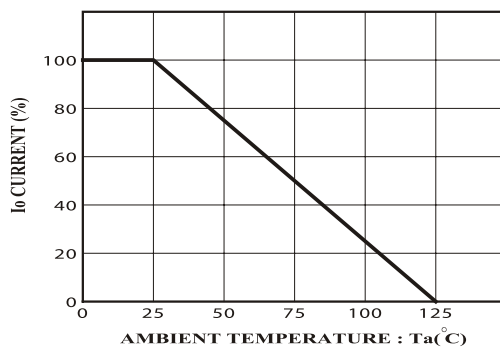


FIG5. Derating curve (mounting on glass epoxy PCBs)