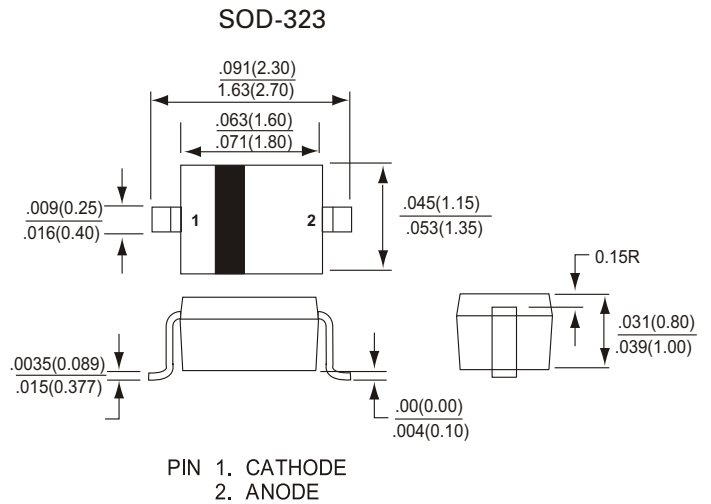


PSD501H

SURFACE MOUNT SCHOTTKY BARRIER DIODES

SCHOTTKY BARRIER RECTIFIER 100m AMPERES 40 VOLTS



FEATURES

- Extremely Low V_F
- Very Small Conduction Losses
- Schottky Barrier Diodes Encapsulated in SOD-323 Package

MAXIMUM RATING

CHARACTERISTICS	SYMBOL	PSD501H	UNITS
Breakdown Voltage	B_V	45	Volts
Continuous Reverse Voltage	V_R	40	Volts
Average Rectified Forward Current	I_O	100	mAmps
Peak Forward Surge Current (8.3ms 1/2 Sine Wave)	I_{FSM}	1.0	Amps
Storage Temperature	T_{stg}	-40 to +125	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}C$)

Maximum Instantaneous Forward Voltage $I_F = 100mA$	V_F	0.55	Volts
Maximum Instantaneous Reverse Current ($V_R = 10V$)	I_R	30	μ Amps
Typical Junction Capacitance ($V_R = 10V, f = 1MHz$)	C_J	20	pF

PSD501H

SURFACE MOUNT SCHOTTKY BARRIER DIODES

Electrical characteristics curves ($T_a=25^\circ\text{C}$ unless specified otherwise)

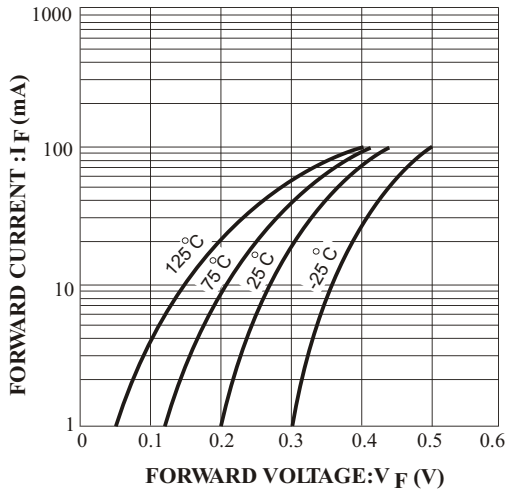


Fig.1 Forward characteristics

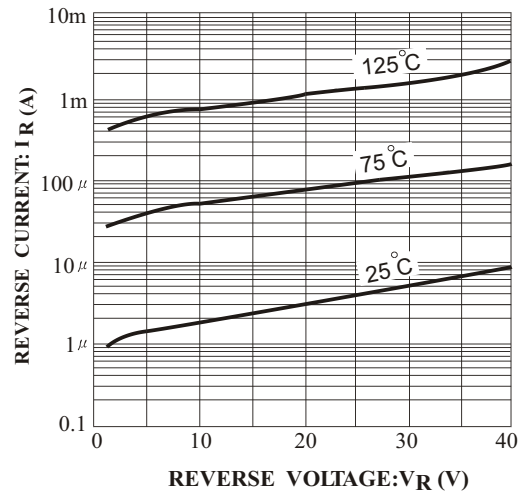


Fig.2 Reverse characteristics

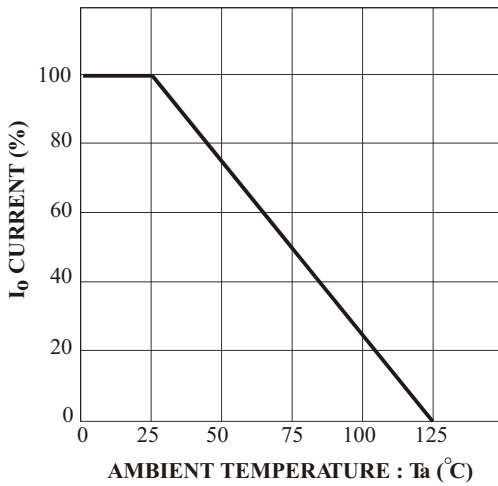


Fig. 4 Derating curve
(mounting on glass epoxy PCBs)

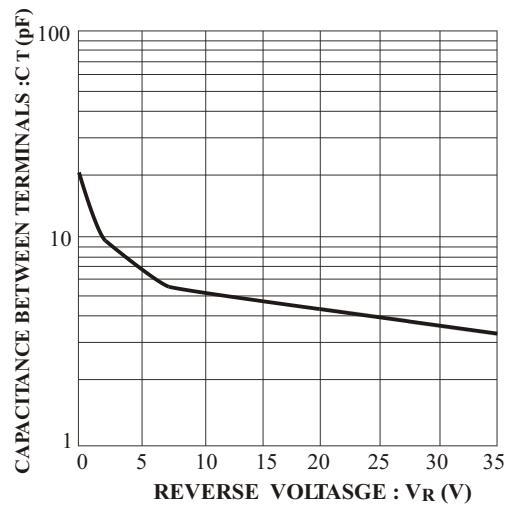


Fig.3 Capacitance between
terminals characteristics