

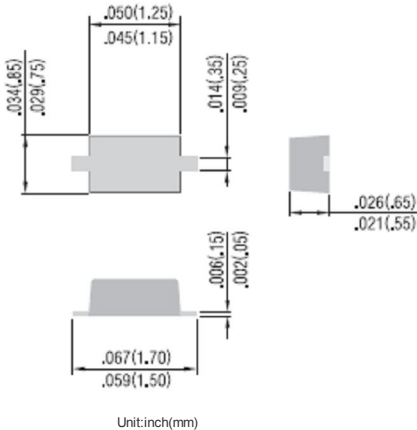


MMBD4448HTS

Surface Mount Switching Diodes

Voltage 100 volts Power 200 mwatts

SOD-523



FEATURES

- ◆ Fast switching speed
- ◆ Electrically identical to standard JEDEC
- ◆ Surface mount package ideally suited for automatic insertion
- ◆ High conductance
- ◆ Pb free product are available: 99% Sn above can meet RoHS Environment substance directive request

MECHANICAL DATA

Case:SOD-523, plastic case

Terminals: Solderable per MIL-STD-750, method 2026

Approx. Weight:0.002 gram

Standard packaging: 8mm tape

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

T_J=25°C unless otherwise noted

PARAMETER	SYMBOL	MMBD4448HTS	UNITS
Marking Code		A3	
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A =25°C	I _{F(AV)}	150	mA
Peak Forward Surge Current, 1.0us	I _{FSM}	4	A
Power Dissipation Derate Above 25°C	P _D	200	mW
Maximum Forward Voltage	V _F	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	2.5 @75V	μA
Junction Capacitance(Note1)	C _J	4.0	pF
Maximum Reverse Recovery (Note2)	T _{RR}	4.0	ns
Typical Thermal Resistance	R _{θJA}	625	°C /W
Storage Temperature Range	T _J	-55 to +150	°C

NOTES:

1. C_J at V_R=0, f=1MHZ .
2. From I_F=10mA to I_R=1mA, V_R=6 volts, R_L=100Ω

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Typical Forward Characteristic

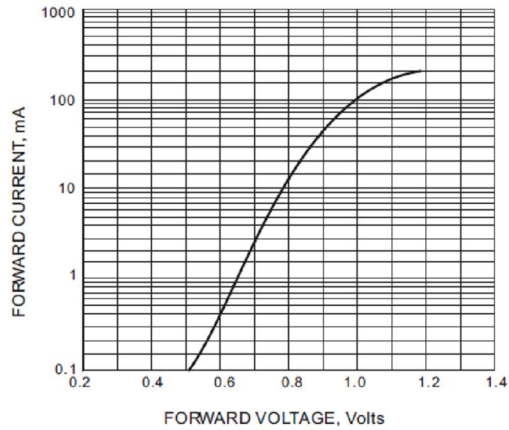


Fig.2 Typical Reverse Characteristics

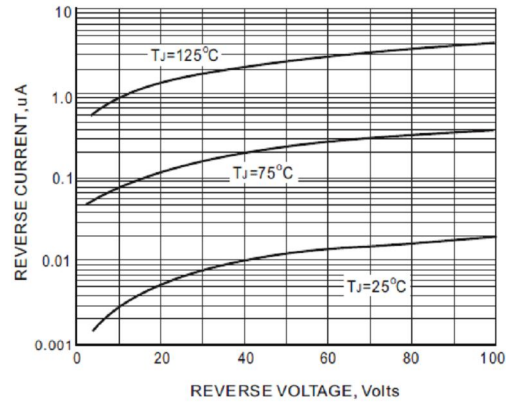


Fig.3 Power Derating Curve

