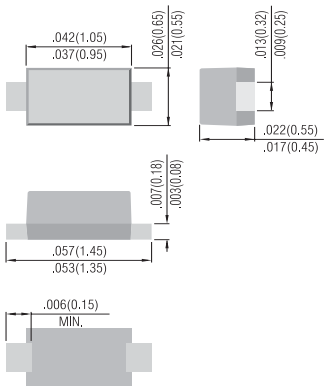
PANJIT SEMI CONDUCTOR

MMBD4148TG

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

SOD-723 Unit: inch (mm)



FEATURES

- Fast switching Speed.
- Electrically Identical to Standerd JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case : SOD-723 plastic case.
Terminals : Solderable per MIL-STD-750,Method 2026
Approx. Weight : 0.0007gram
Marking Code : BH

ABSOLUTE RATINGS (T_A=25°C , unless otherwise noted)

PARAMETER	SYMBOL	MMBD4148TG	UNITS
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RRM}	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, 0.001ms	I_{FSM}	2	A
Power Dissipation Derate Above 25 °C	P_{TOT}	200	mW
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to 150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	MMBD4148TG	UNITS
Maximum Thermal Resistance	$R_{\theta JA}$	635	°C / W

NOTE:
1. CJ at V_R=0, f=1MHZ
2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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ELECTRICAL CHARACTERISTICS (T_A=25°C , unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Forward Voltage	V_F	I_F=1mA I_F=10mA I_F=50mA I_F=150mA	0.715 0.855 1.00 1.25	V
Reverse Leakage Current	I_R	V_R=25V V_R=75V	0.03 2.5	μA
Maximum Total Capacitance	C_T	V_R=0V, f=1MHz	1.5	pF
Maximum Reverse Recovery Time	t_{rr}	I_F=10mA,I_R=1mA V_R=6V,R_L=100Ω	4	ns

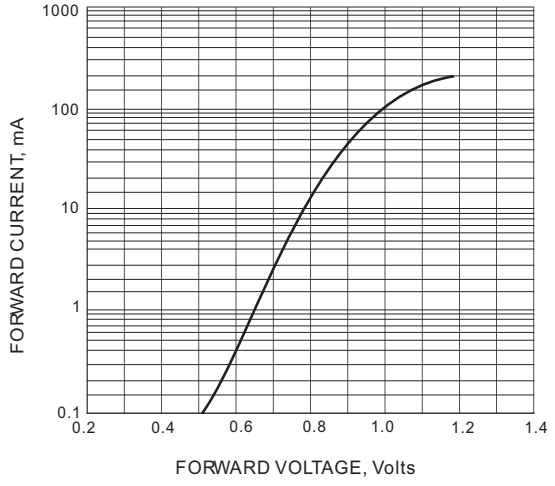


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

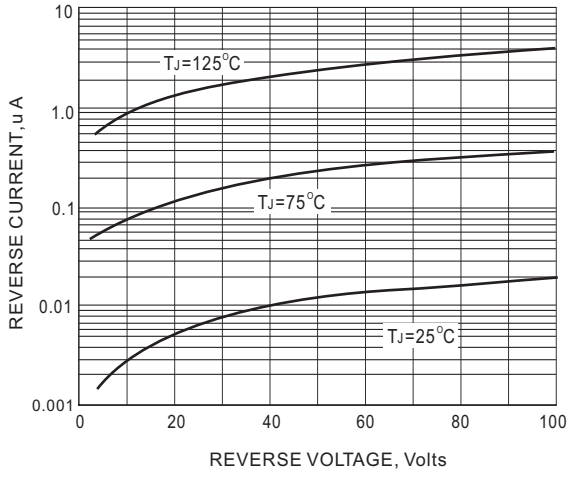


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

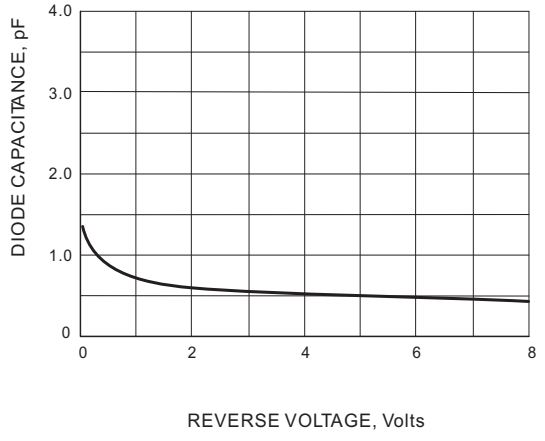


FIG. 3 TYPICAL JUNCTION CAPACITANCE

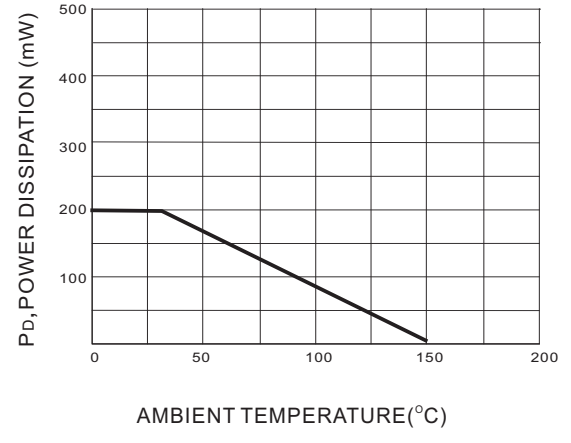
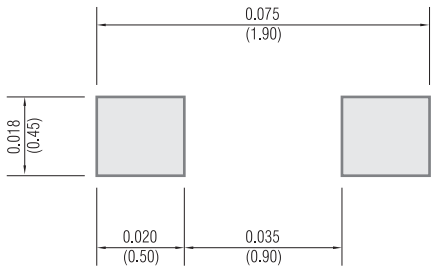


FIG. 4 POWER DERATING CURVE

MMBD4148TG

MOUNTING PAD LAYOUT

SOD-723 Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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