



SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volt POWER 200mWatt

FEATURES

- · Fast switching Speed.
- Electrically Identical to Standard JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

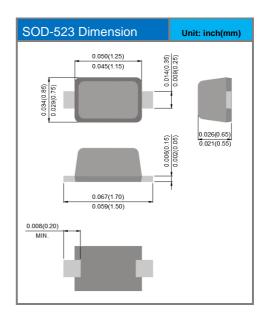
MECHANICAL DATA

· Case: SOD-523 plastic case.

• Terminals : Solderable per MIL-STD-750, Method 2026

• Standard packaging : 8mm tape

• Approx. Weight: 0.00005 ounces, 0.0014 grams



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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRRM	100	V
RMS Voltage	VRMS	50	V
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at T _A =25 °C	I F(AV)	150	mA
Peak Forward Surge Current, 1.0 μs	IFSM	4	А
Power Dissipation Derate Above 25 °C	Ртот	200	mW
Junction Temperature	TJ	150	οС
Storage Temperature Range	Тѕтс	-55 to 150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Typical Thermal Resistance	$R_{_{\!\scriptscriptstyle{\theta JA}}}$	635	°C / W





$\textbf{ELECTRICAL CHARACTERISTICS} \; (\textbf{T}_{A} = 25^{\circ} \textbf{C} \; , \, \text{unless otherwise noted})$

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Forward Voltage			0.715 0.855 1.00 1.25	V
Reverse Leakage Current			0.025 2.5	μΑ
Maximum Total Capacitance	C _T	V _R =0V, f=1MHz	1.5	pF
Maximum Reverse Recovery Time	t,,	I _F =10mA,I _R =1mA V _R =6V,R _L =100Ω	4	ns

TYPICAL CHARACTERISTIC CURVES

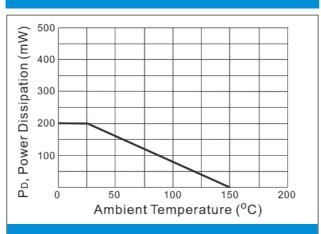


Fig.1 Power Derating Curve

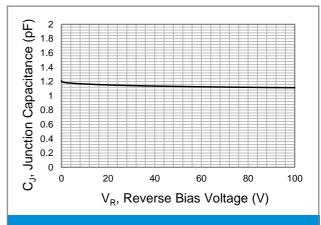


Fig.2 Typical Junction Capacitance

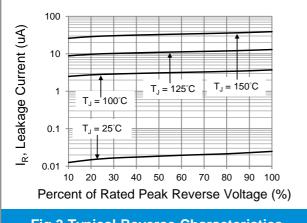


Fig.3 Typical Reverse Characteristics

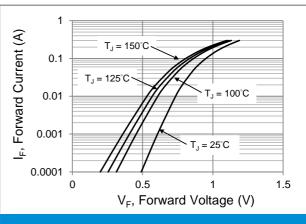


Fig.4 Typical Forward Characteristics

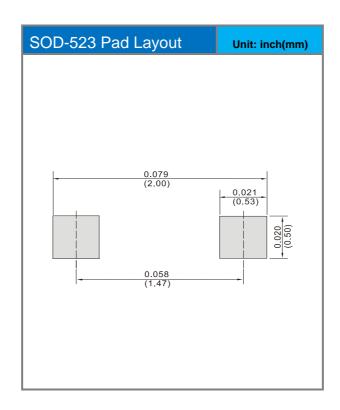




Part No. Packing Code Version

	Part No. Packing Code	Package Type	Packing Type	Marking	Version
	MMBD4148TS-AU_R1_000A1	SOD-523	5K pcs / 7" reel	A2	Halogen free
					RoHS compliant

Mounting Pad Layout







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