



SURFACE MOUNT SWITCHING DIODES

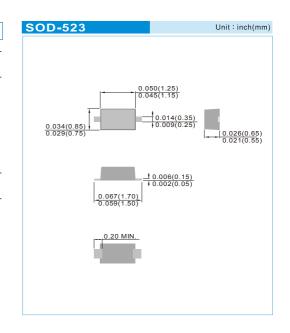
VOLTAGE 100 Volt POWER 200mWatt

FEATURES

- · Fast switching Speed.
- Electrically Identical to Standard JEDEC
- Surface Mount Package Ideally Suited for Automatic Insertion.
- 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: 0.0001 ounces, 0.0014 grams
- Marking Code: A2



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

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	VR	75	V
Peak Reverse Voltage	VRRM	100	٧
RMS Voltage	VRMS	50	V
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at T _A =25 °C	l F(AV)	150	mA
Peak Forward Surge Current, 1.0 μs	I FSM	4	А
Power Dissipation Derate Above 25 °C	Ртот	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	Тѕтс	-55 to 150	°C

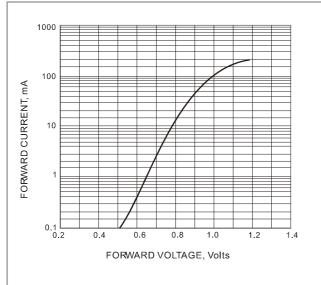
THERMAL CHARACTERISTICS

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





PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Forward Voltage			0.715 0.855 1.00 1.25	V
Reverse Leakage Current	I R	V _R =20V V _R =75V	0.025 2.5	μΑ
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



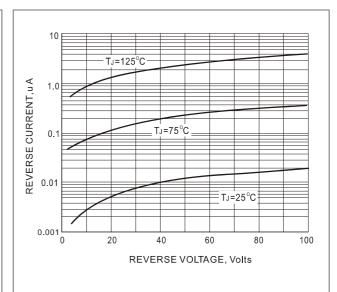
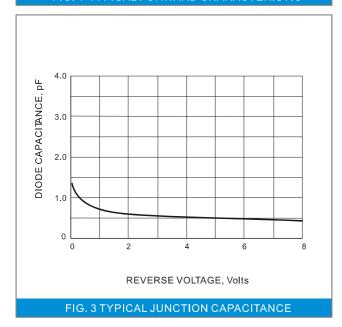
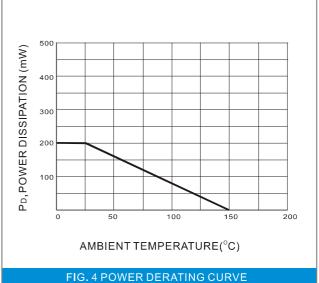


FIG. 1 TYPICAL FORWARD CHARACTERISTIC



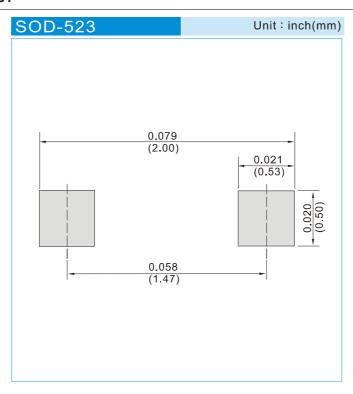








MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

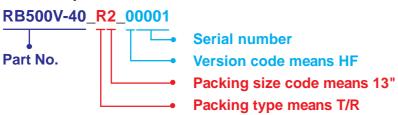




Part No_packing code_Version

MMBD4148TS_R1_00001 MMBD4148TS_R2_00001

For example:



Packing Code XX			Version Code XXXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	٦	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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