

SINLOON®

小型化蕭特基二極管
Voltage Range: 100V-1KV

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TB1S ~ TB10S

1.0A Surface Mount Glass Passivated Bridge Rectifier

□ FEATURE:

- ◆ High reliability
- ◆ Low forward voltage drop
- ◆ High surge current capability
- ◆ Glass passivated die construction
- ◆ Ultra-slim 1.5mm max. case height
- ◆ Designed for surface mount application
- ◆ Plastic Material - UL Recognition Flammability Classification 94V-0

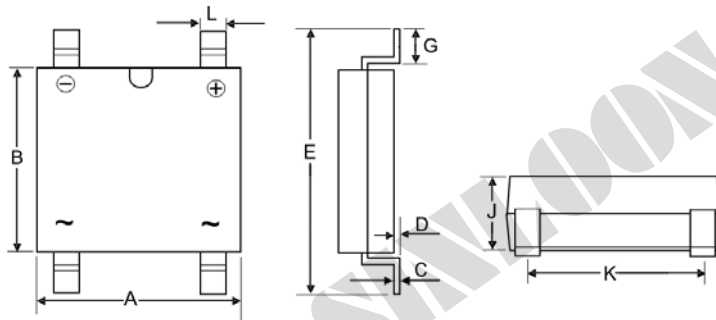
□ MECHANICAL CHARACTERISTICS:

- ◆ Case: TB-S Molded Plastic
- ◆ Weight: 0.10 Grams (approx)
- ◆ Marking: Type number
- ◆ Polarity: As marked on case
- ◆ Terminals: Plated leads solder able per MIL-STD-202, Method 208.
- ◆ Lead Free for Rohm / Lead free version and "LF" suffix to part number.



□ DIMENSION: Unit: mm

Dimension (mm) TB-S		
Dim.	Min.	Max.
A	4.80	5.20
B	4.20	4.60
C	0.10	0.30
D	0.05	0.15
E	6.00	6.40
G	0.30	0.80
J	1.30	1.50
K	3.80	4.20
L	0.60	0.70



□ Maximum Ratings and Data specification @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Single, phase half wave 60Hz resistive or inductive load, for capacitive load, derate current by 20%.

Parameter at Tamb = 25°C	Symbol	Part Code						Unit	
		TB1S	TB2S	TB4S	TB6S	TB8S	TB10S		
DC Blocking Voltage:	V_R								
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V	
Working Peak Reverse Voltage	V_{RWM}								
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V	
Average Rectified Output Current @ $T_A=25^{\circ}\text{C}$ (1)	I_o	1.0	1.0	1.0	1.0	1.0	1.0	A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDC)	I_{FSM}	30	30	30	30	30	30	A	
Forward Voltage Diode	V_{FM}	@ $I_F = 0.4\text{A}$	0.95	0.95	0.95	0.95	0.95	0.95	V
		@ $I_F = 1.0\text{A}$	1.10	1.10	1.10	1.10	1.10	1.10	
Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$	I_{RM}		5.0	5.0	5.0	5.0	5.0	5.0	μA
At Rated DC Blocking Voltage @ $T_A = 125^{\circ}\text{C}$			500	500	500	500	500	500	
Typical Junction Capacitance per leg (2)	C_j	10.0	10.0	10.0	10.0	10.0	10.0	pF	
Thermal resistance junction to ambient (1)	$R_{\theta JA}$		62.5	62.5	62.5	62.5	62.5	62.5	$^{\circ}\text{C/W}$
Thermal resistance junction to lead (3)			25	25	25	25	25	25	
Operating and Storage Temperature Range	$T_J, T_{STG.}$	-50 to +150						$^{\circ}\text{C}$	

Note¹: Mounted on aluminum substrate PCB with 1.3x1.3mm pad areas.

Note²: Measure at 1.0 MHz and applied reverse voltage of 4.0V DC

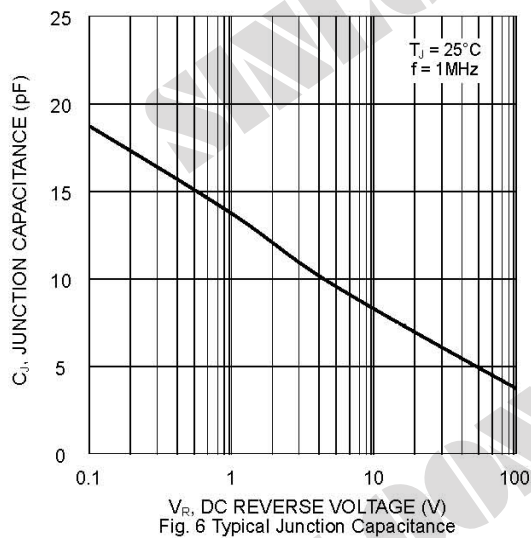
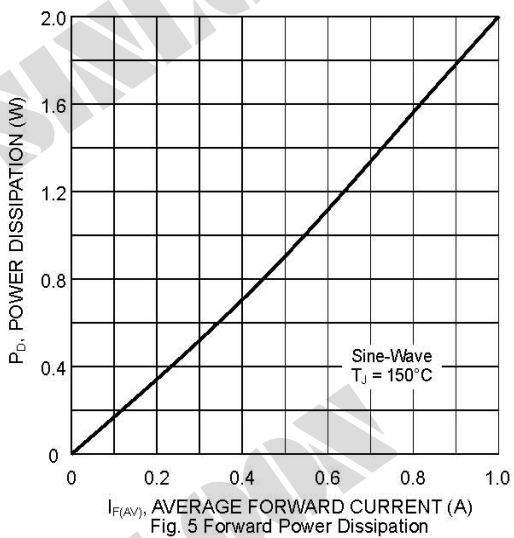
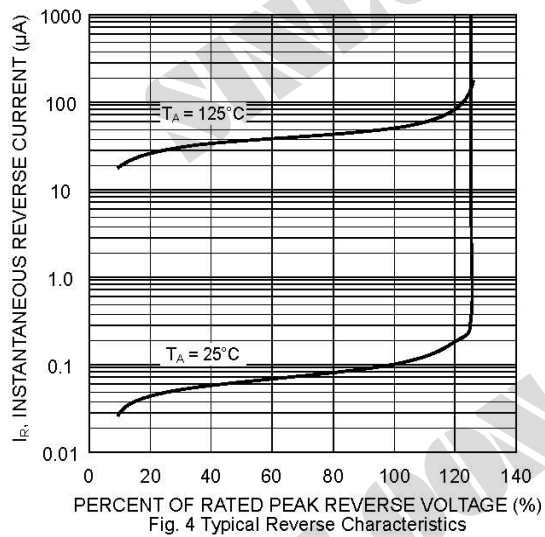
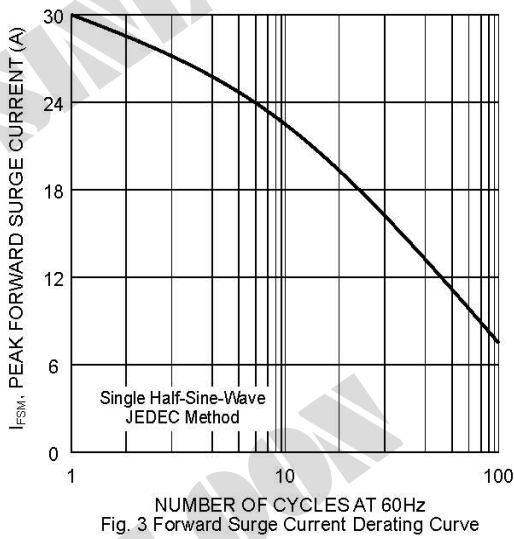
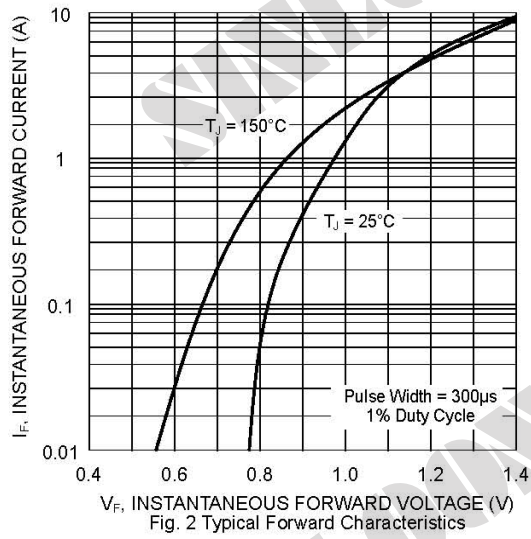
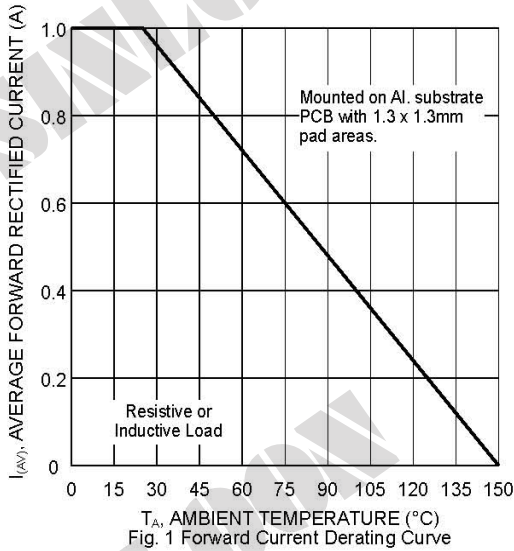
Note³: Mounted on glass epoxy PCB with 1.3x1.3mm pad areas.

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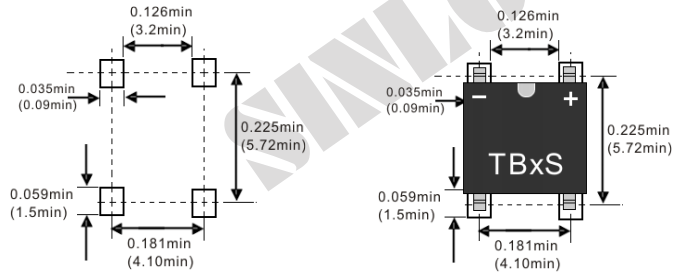
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MARKING INFORMATION

Cathode: Polarity Band
Marking: See part code



RECOMMENDED SOLDERING FOOTPRINT

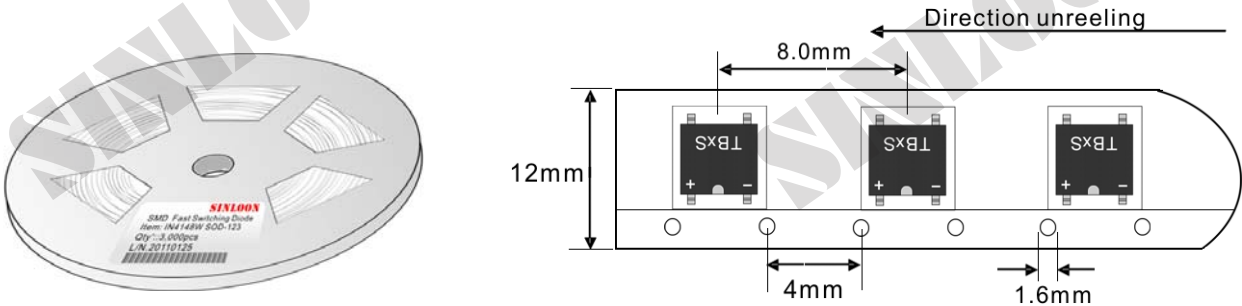


COMMON PACKING INFORMATION:

Product Number:	Package Type	Packing Quantity	Carton Quantity	Apporx Gross Weight
TBxS	TB-S	4000 Tape & Reel	64,000 Ctn	14 Kg

Reel Diameter (mm)	Quantity (Pcs)	Inner Box Size (mm)	Carton Size (mm)
178	4000	L: 340 x W:3377 x H: 45	L:370 x W:370 x H:420

Reel Tape Fig-1



Inner Box Fig-2



Carrton



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※ Mayloon characteristic parameters of electronic product specification changes or updates without prior notice。