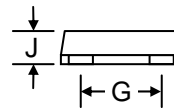
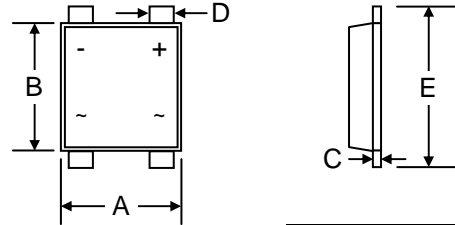


Features

- **Low Profile Flatpack 1.2mm Case Height**
- Glass Passivated Die Construction
- High Reliability
- Low Forward Voltage Drop
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material – UL Flammability 94V-0



TB-S Flat		
Dim	Min	Max
A	4.90	5.10
B	5.30	5.50
C	0.15	0.25
D	0.60	0.70
E	6.00	6.40
G	3.90	4.10
J	1.15	1.27
All Dimensions in mm		

Mechanical Data

- Case: TB-S Flat, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.10 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	100	200	400	600	800	1000	V
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_A = 25^\circ\text{C}$	I_O	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30						A
Forward Voltage per diode @ $I_F = 1.0\text{A}$	V_{FM}	1.1						V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_{RM}	5.0 500						μA
Typical Junction Capacitance per leg (Note 2)	C_J	10						pF
Thermal Resistance Junction to Ambient (Note 1)	R_{JA}	62.5						$^\circ\text{C/W}$
Thermal Resistance Junction to Lead (Note 3)	R_{JL}	25						
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^\circ\text{C}$

Note: 1. Mounted on aluminum substrate PC board with 1.3 x 1.3mm pad areas.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
3. Mounted on glass epoxy PCB with 1.3 x 1.3mm pad areas.

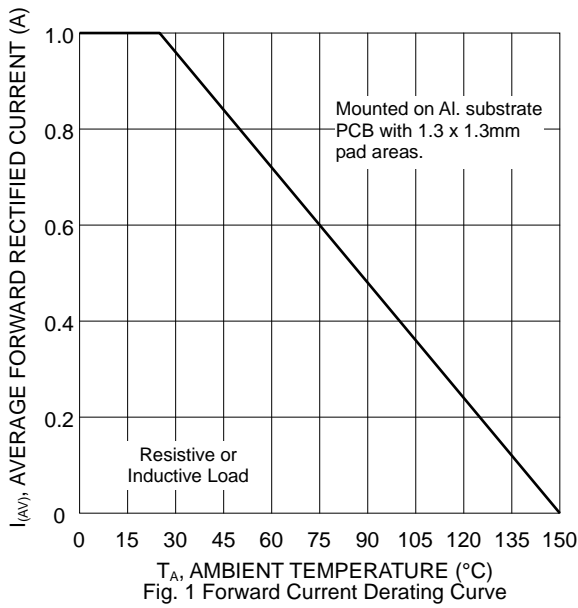


Fig. 1 Forward Current Derating Curve

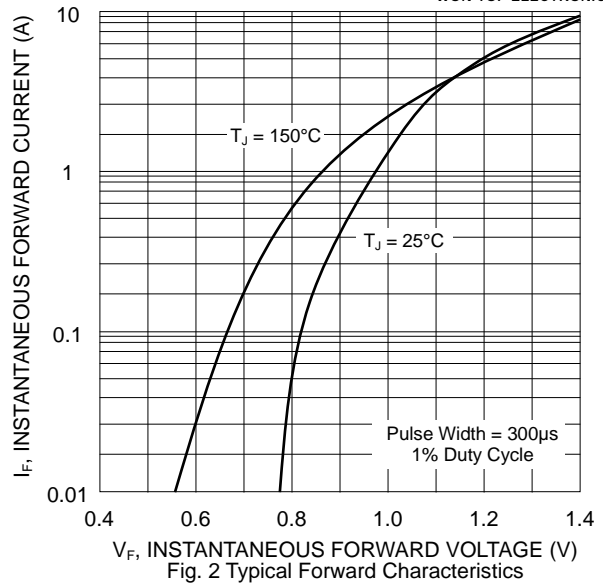


Fig. 2 Typical Forward Characteristics

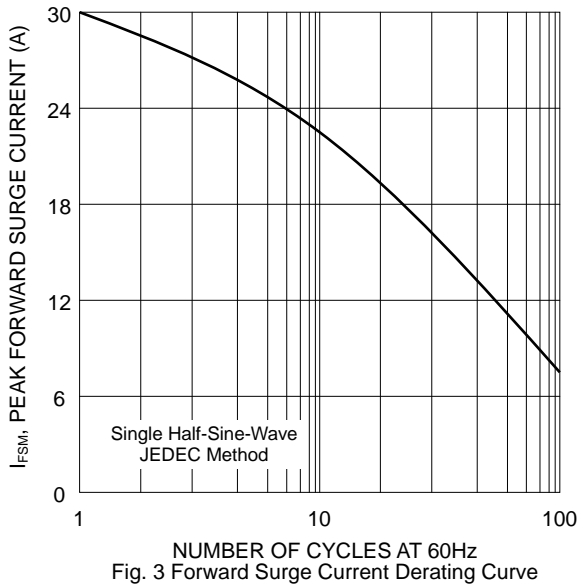


Fig. 3 Forward Surge Current Derating Curve

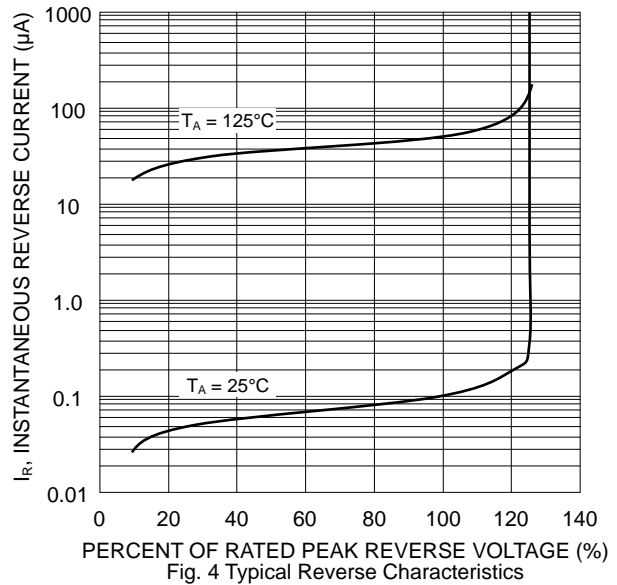


Fig. 4 Typical Reverse Characteristics

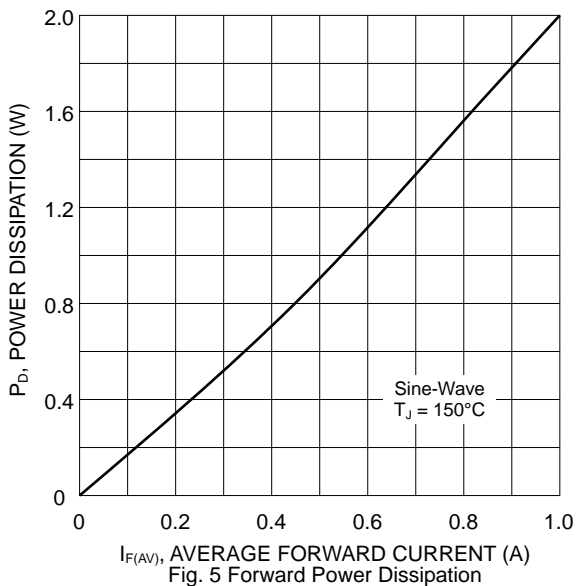


Fig. 5 Forward Power Dissipation

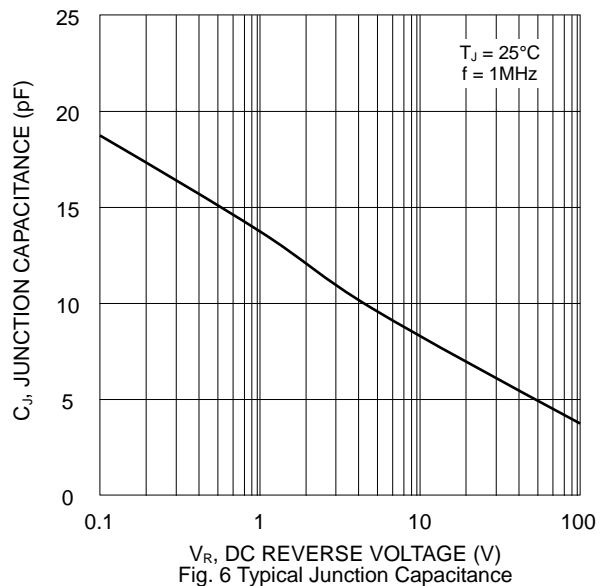


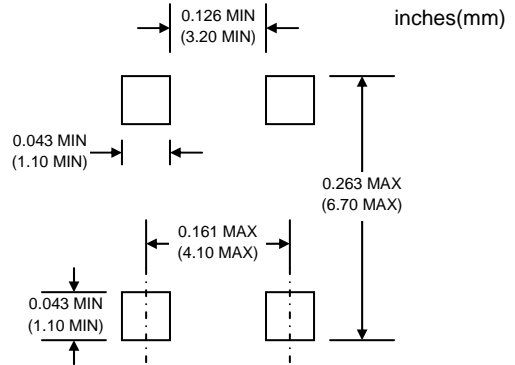
Fig. 6 Typical Junction Capacitance

MARKING INFORMATION



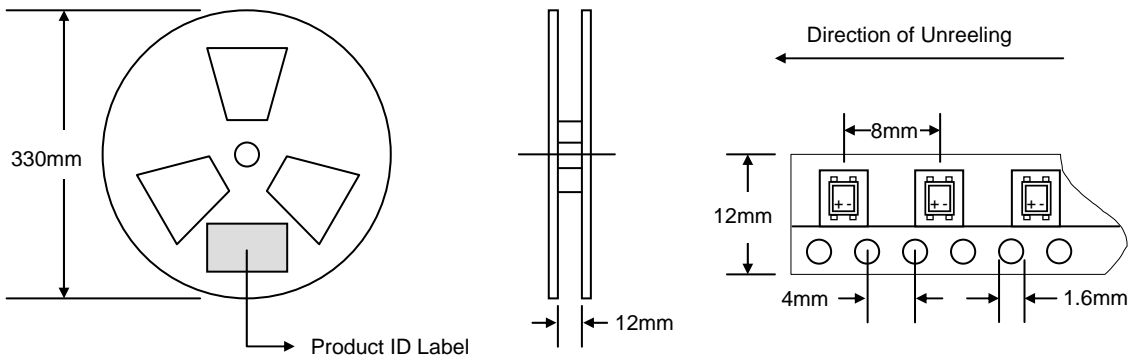
ABSx = Device Number
 x = 1, 2, 4, 6, 8 or 10
 Polarity = As Marked on Body

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	5,000	340 x 337 x 45	10,000	370 x 370 x 420	80,000	16.0

Note: 1. Paper reel, white or gray color.
 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ABS1-T3	TB-S Flat	5000/Tape & Reel
ABS2-T3	TB-S Flat	5000/Tape & Reel
ABS4-T3	TB-S Flat	5000/Tape & Reel
ABS6-T3	TB-S Flat	5000/Tape & Reel
ABS8-T3	TB-S Flat	5000/Tape & Reel
ABS10-T3	TB-S Flat	5000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ABS1-T3-LF.**

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.