End of Life BU-5S lead forming "August 2021"



BU1506, BU1508, BU1510

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ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT			
Maximum instantaneous forward voltage per diode (1)	I _F = 7.5 A	T _A = 25 °C	V _F	0.97	1.05	V			
		T _A = 125 °C		0.87	0.95				
Maximum reverse current per diode	rated V _R	T _A = 25 °C	I _R	-	5.0	μА			
		T _A = 125 °C		90	250				
Typical junction capacitance per diode	4.0 V, 1 MHz		CJ	70	-	pF			

Note

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)							
PARAMETER	SYMBOL	BU1506	BU1508	BU1510	UNIT		
Typical thermal resistance	R _{eJC} (1)	2.5			°C/W		
	R _{0JA} (2)	20					

Notes

- (1) With 60 W air cooled heatsink
- (2) Without heatsink, free air

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
BU1506-E3/45	4.75	45	20	Tube			
BU1506-E3/51	4.75	51	250	Paper tray			
BU1506-M3/45	4.75	45	20	Tube			
BU15065S-E3/45	4.75	45	20	Tube			



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RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise specified)

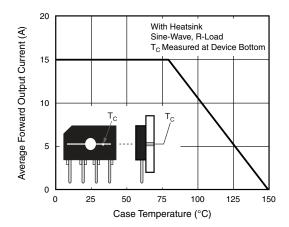


Fig. 1 - Derating Curve Output Rectified Current

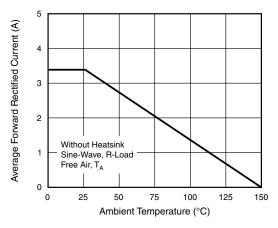


Fig. 2 - Forward Current Derating Curve

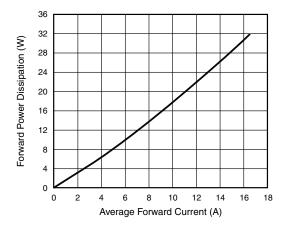


Fig. 3 - Forward Power Dissipation

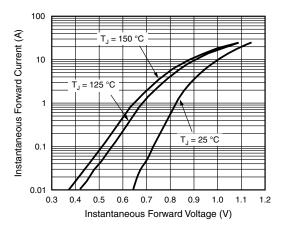


Fig. 4 - Typical Forward Characteristics Per Diode

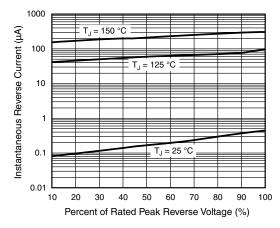


Fig. 5 - Typical Reverse Characteristics Per Diode

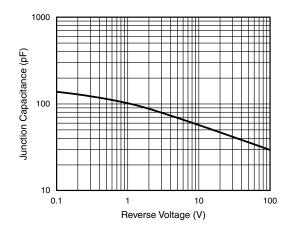


Fig. 6 - Typical Junction Capacitance Per Diode



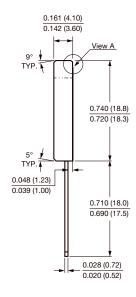
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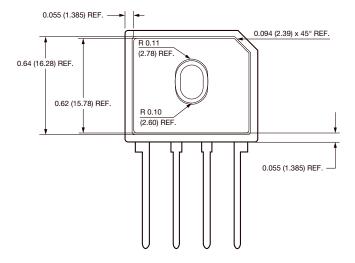
PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

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Case Type BU 0.880 (22.3) 0.860 (21.8) 0.020R (TYP.) 0.125 (3.2) x 45 Chamfer 0.310 (7.9) 0.160 (4.1) 0.290 (7.4) 0.140 (3.5) 0.075 0.080 (2.03) (1.9) R 0.085 (2.16) 0.060 (1.52) 0.065 (1.65) 0.050 (1.27) 0.100 (2.54) 0.040 (1.02) 0.085 (2.16) 0.080 (2.03) 0.190 (4.83) 0.210 (5.33)



Polarity shown on front side of case, positive lead beveled corner



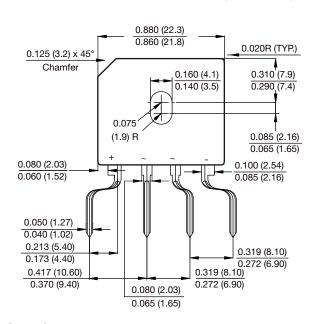


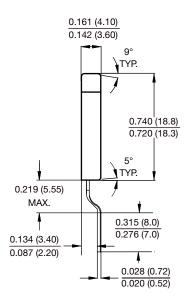
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FORMING SPECIFICATION: BU-5S in inches (millimeters)

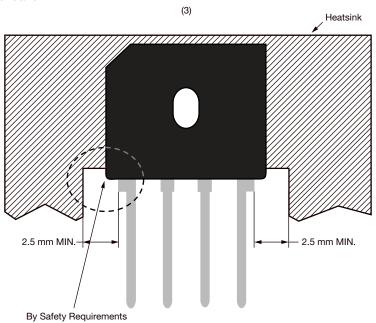
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APPLICATION NOTE

- 1. Device UL approved for safety use dielectric strength of 1500 V.
- 2. If device is mounted in Floating Ground (F. G.) application, insulator is recommended to use to meet safety requirement.
- 3. Heat sink shape recommendation:





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