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 = 12.5 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	μA
		T_A = 125 °C		120	350	
Typical junction capacitance per diode	4.0 V, 1 MHz		C_J	125	-	pF

Note

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

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	**SYMBOL**	**BU2506**	**BU2508**	**BU2510**	**UNIT**	
Typical thermal resistance	$R_{\theta JC}$ (1)	2.0			°C/W	
	$R_{\theta JA}$ (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**
BU2506-E3/45	4.84	45	20	Tube
BU2506-E3/51	4.84	51	250	Paper tray
BU2506-M3/45	4.84	45	20	Tube
BU25065S-E3/45	4.84	45	20	Tube

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

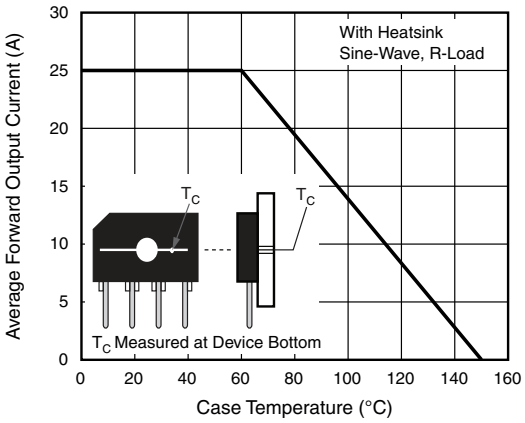


Fig. 1 - Derating Curve Output Rectified Current

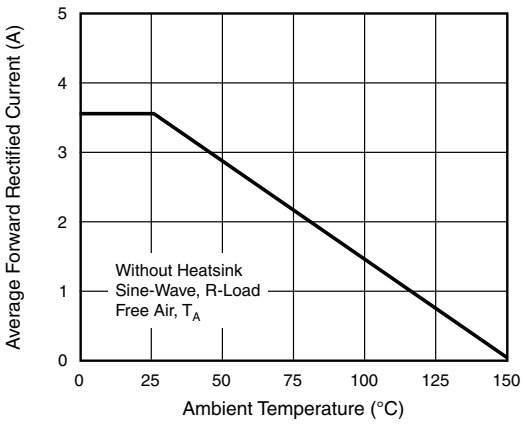


Fig. 2 - Forward Current Derating Curve

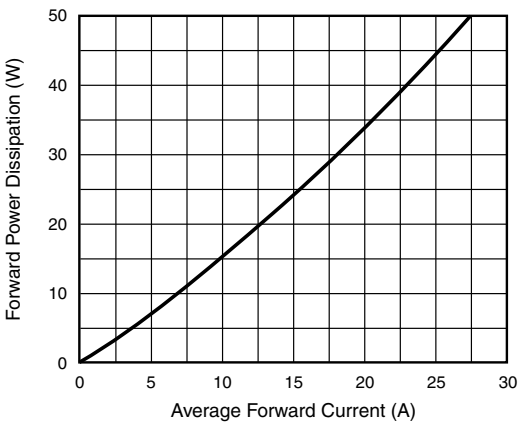


Fig. 3 - Forward Power Dissipation

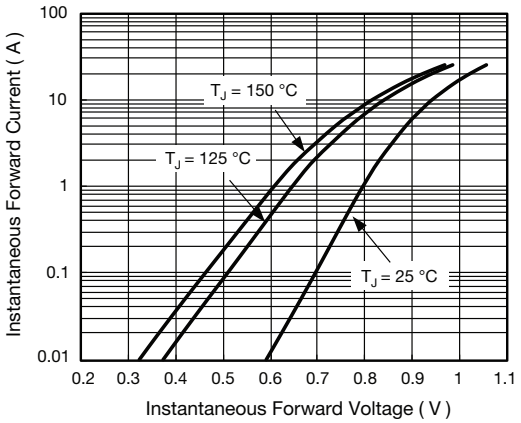


Fig. 4 - Typical Forward Characteristics Per Diode

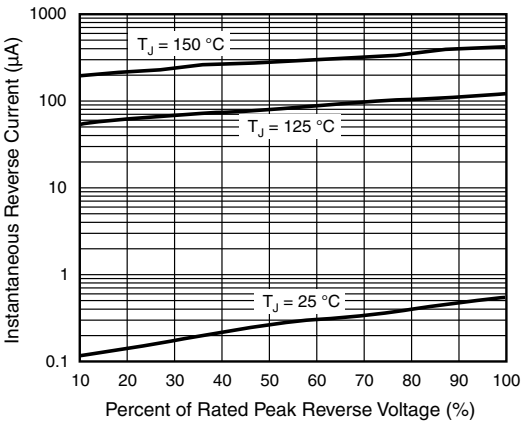


Fig. 5 - Typical Reverse Characteristics Per Diode

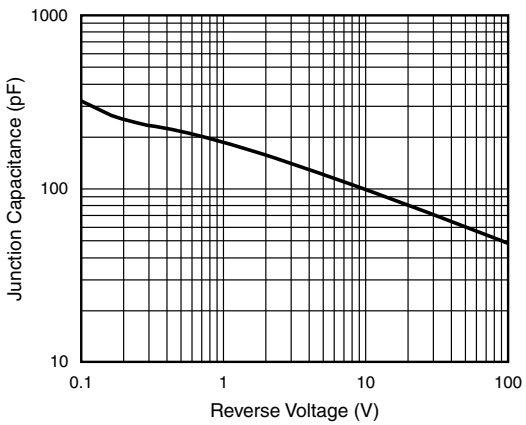
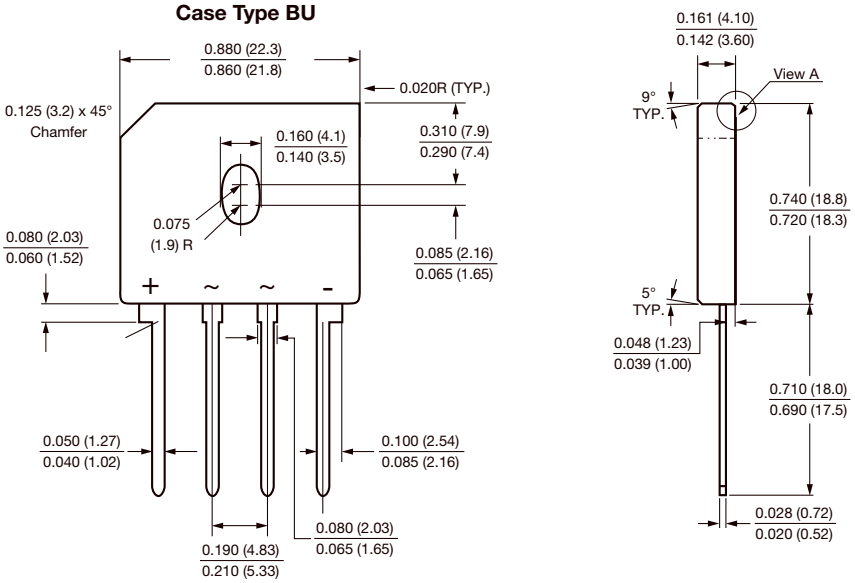


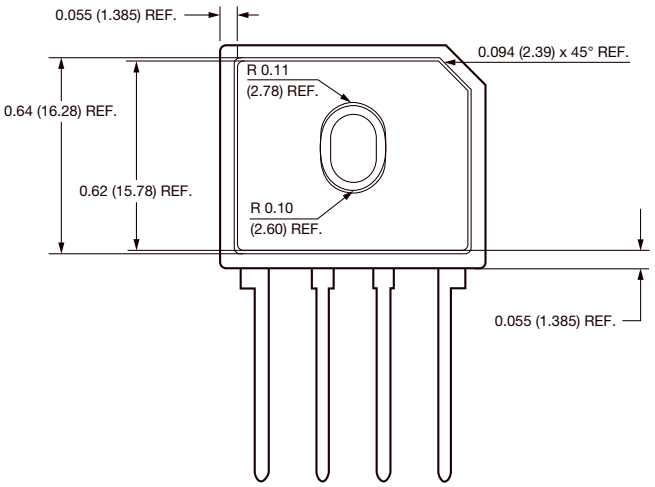
Fig. 6 - Typical Junction Capacitance Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

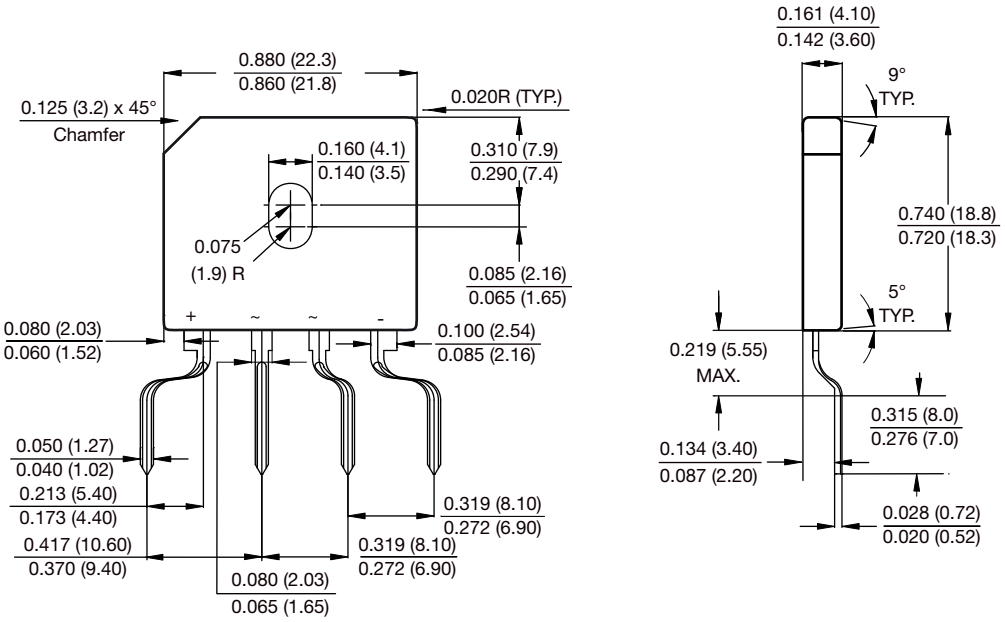
Case Type BU



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

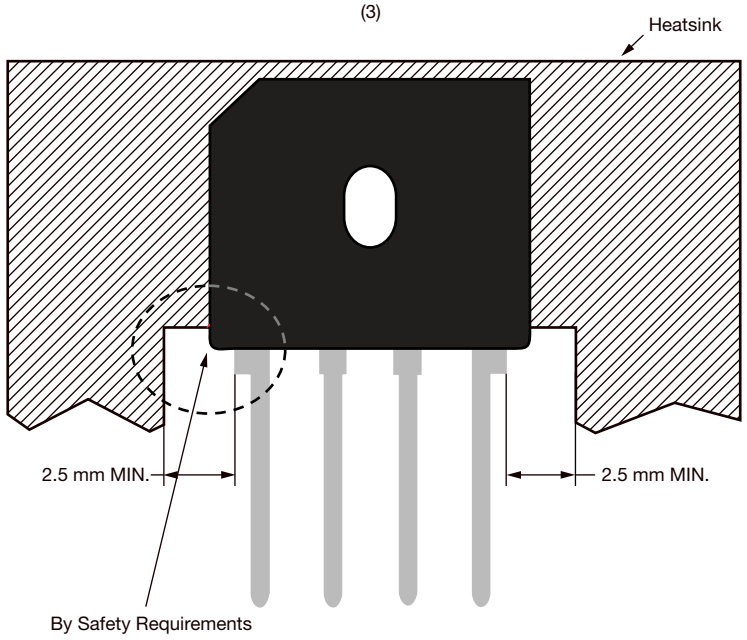


FORMING SPECIFICATION: BU-5S in inches (millimeters)



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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