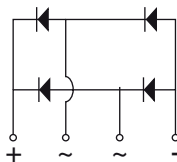


Enhanced isoCink+™ Bridge Rectifiers



isoCink+™
Case Style BU



FEATURES

- UL recognition file number E312394
- Thin single in-line package
- Superior thermal conductivity
- Glass passivated chip junction
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
Available

TYPICAL APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances and white-goods applications.

MECHANICAL DATA

Case: BU

Molding compound meets UL 94 V-0 flammability rating
Base P/N-E3 - RoHS-compliant, commercial grade
Base P/N-M3 - halogen-free, RoHS-compliant, and commercial grade

Terminals: matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

E3 and M3 suffix meet JESD 201 class 1A whisker test

Polarity: as marked on body

Mounting Torque: 10 cm·kg (8.8 inches·lbs) max.

Recommended Torque: 5.7 cm·kg (5 inches·lbs)

PRIMARY CHARACTERISTICS

$I_{F(AV)}$	25 A
V_{RRM}	600 V, 800 V
I_{FSM}	300 A
I_R	5 μ A
V_F at $I_F = 12.5$ A	0.87 V
T_J max.	175 °C
Package	BU
Circuit configuration	In-line

MAXIMUM RATINGS ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	BU25H06	BU25H08	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	V
Average rectified forward current (Fig. 1, 2)	I_O	25	3.5	A
$T_C = 60\text{ }^{\circ}\text{C}$ ⁽¹⁾ $T_A = 25\text{ }^{\circ}\text{C}$ ⁽²⁾				
Non-repetitive peak forward surge current, 8.3 ms single sine-wave, $T_J = 25\text{ }^{\circ}\text{C}$	I_{FSM}	300		A
Rating for fusing ($t < 8.3\text{ ms}$) $T_J = 25\text{ }^{\circ}\text{C}$	I^2t	373		A ² s
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +175		$^{\circ}\text{C}$

Notes

(1) With 60 W air cooled heatsink

(2) Without heatsink, free air

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	V_F	$T_A = 25$ °C	0.97	V
			$T_A = 125$ °C	0.87	
Maximum reverse current per diode	rated V_R	I_R	$T_A = 25$ °C	-	μ A
			$T_A = 125$ °C	120	
Typical junction capacitance per diode	4.0 V, 1 MHz	C_J	125	-	pF

Note

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

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)				
PARAMETER	SYMBOL	BU25H06	BU25H08	UNIT
Typical thermal resistance	R _{θJC} ⁽¹⁾	2.5		°C/W
	R _{θJA} ⁽²⁾	24		

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
BU25H06-E3/P	4.84	P	20	Tube
BU25H06-E3/A	4.84	A	250	Paper tray
BU25H06-M3/P	4.84	P	20	Tube

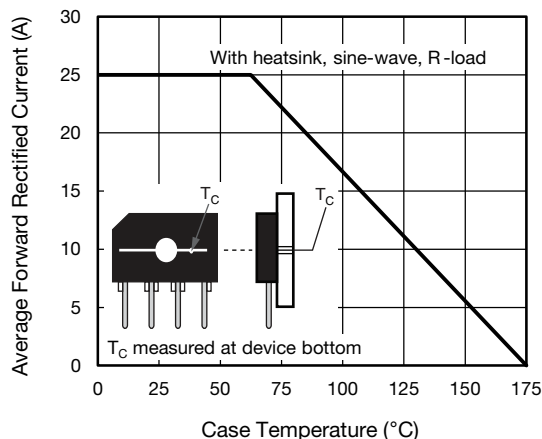
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)


Fig. 1 - Derating Curve Output Rectified Current

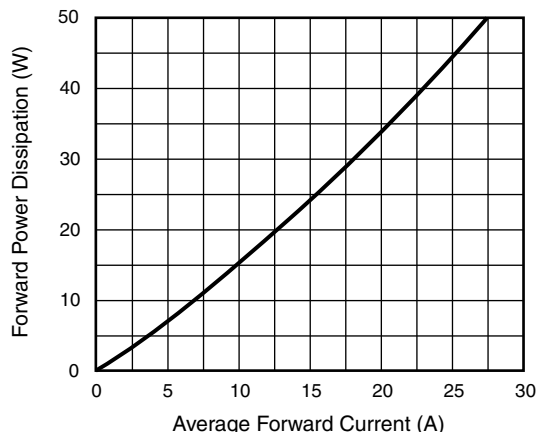


Fig. 3 - Forward Power Dissipation

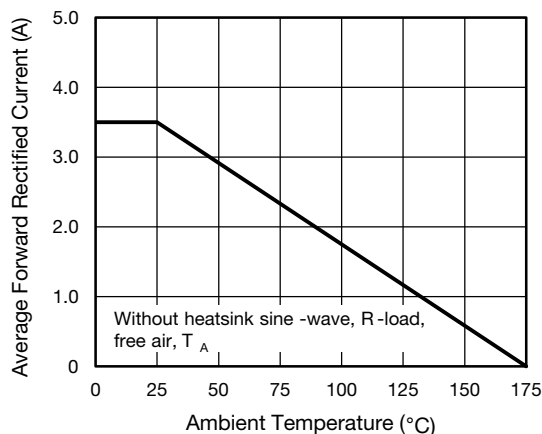


Fig. 2 - Forward Current Derating Curve

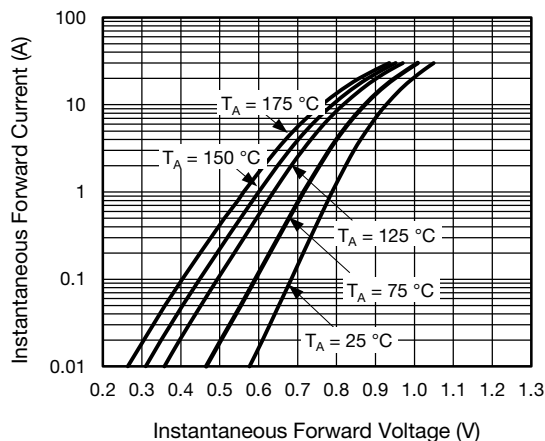


Fig. 4 - Typical Forward Characteristics Per Diode

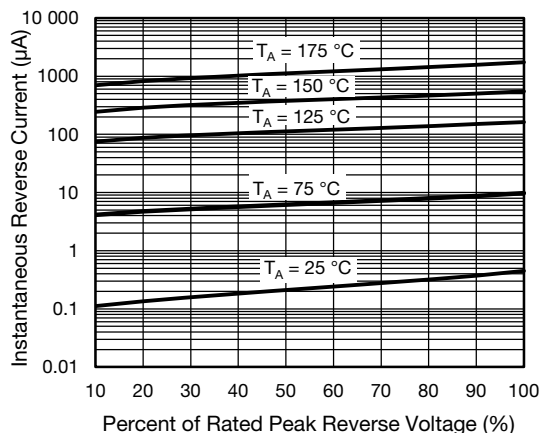


Fig. 5 - Typical Reverse Characteristics Per Diode

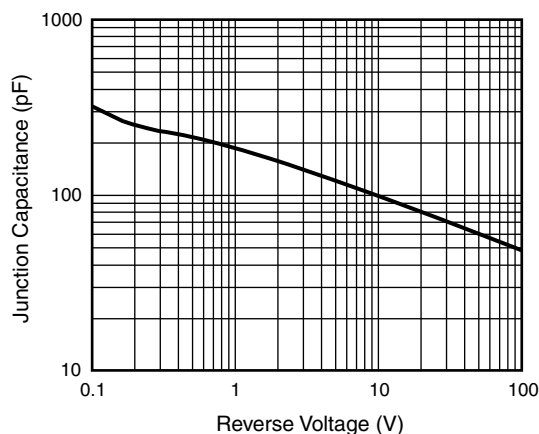
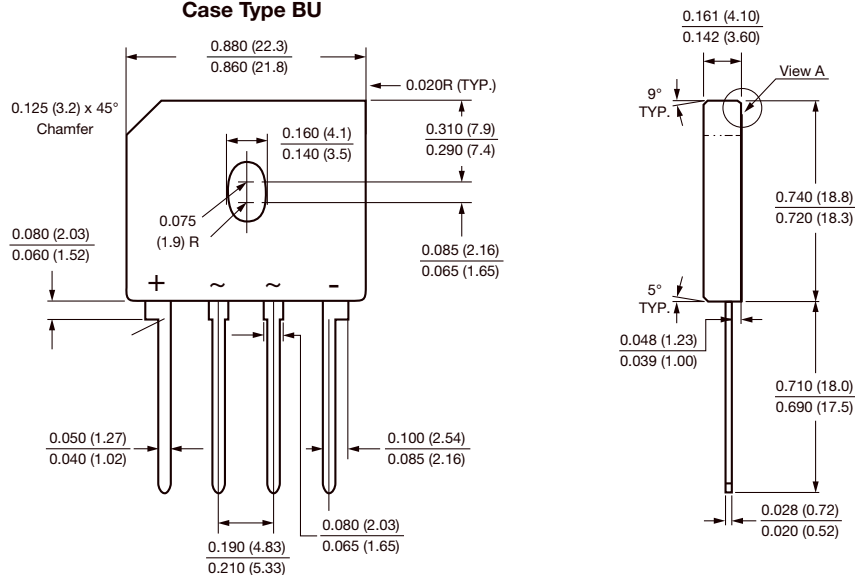
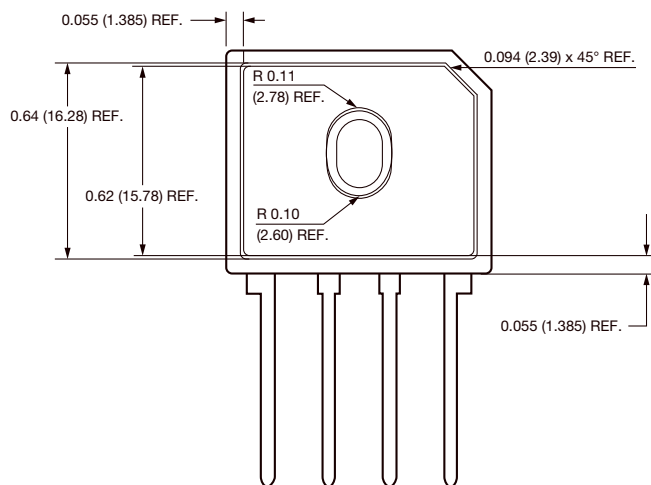


Fig. 6 - Typical Junction Capacitance Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

Case Type BU


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





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