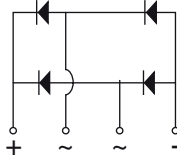


Enhanced isoCink+™ Bridge Rectifiers



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	$T_C = 60$ °C ⁽¹⁾		25
		$T_A = 25$ °C ⁽²⁾		3.5
Non-repetitive peak forward surge current, 8.3 ms single sine-wave, $T_J = 25$ °C	I_{FSM}	300		A
Rating for fusing ($t < 8.3$ ms) $T_J = 25$ °C	I^2t	373		A ² s
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +175		°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	1.05
			$T_A = 125$ °C	0.87	0.95
Maximum reverse current per diode	rated V_R	I_R	$T_A = 25$ °C	-	5.0
			$T_A = 125$ °C	120	350
Typical junction capacitance per diode	4.0 V, 1 MHz	C_J	125	-	pF

Note

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

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)				
PARAMETER	SYMBOL	BU25H06	BU25H08	UNIT
Typical thermal resistance	$R_{\theta JC}$ ⁽¹⁾	2.5		$^\circ\text{C/W}$
	$R_{\theta JA}$ ⁽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

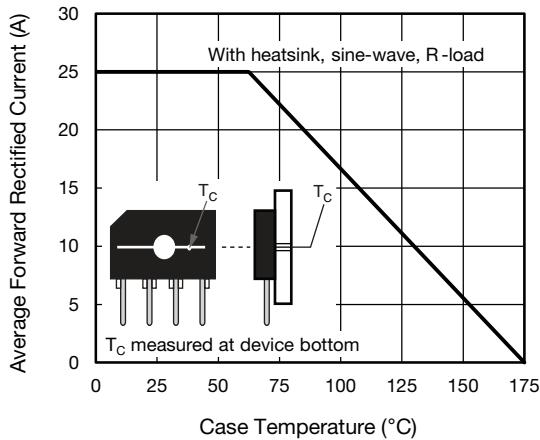
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise specified)


Fig. 1 - Derating Curve Output Rectified Current

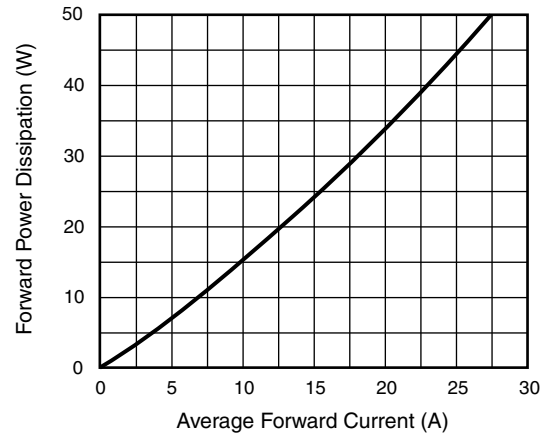


Fig. 3 - Forward Power Dissipation

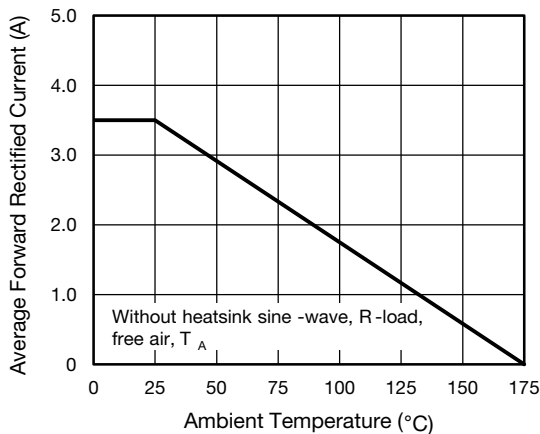


Fig. 2 - Forward Current Derating Curve

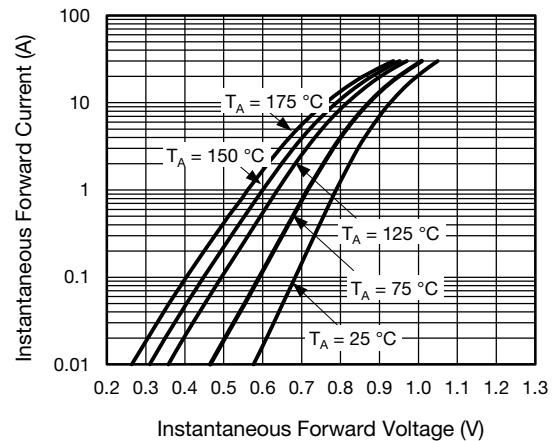


Fig. 4 - Typical Forward Characteristics Per Diode



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.