

S50VB80
Bridge Diodes
800V, 50A

Feature

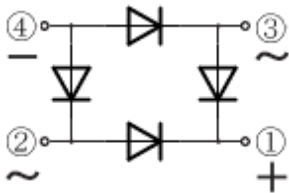
- Faston Terminal
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): S50VB



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	50Hz sine wave, Resistance load, With heatsink, Tc=95°C	50	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	500	A
Current squared time	I ² t	1ms≤tp<10ms, Tj=25°C, per diode	800	A ² s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting torque	TOR	(Recommended torque : 0.6N·m)	0.8	N·m

※ : See the original Specifications

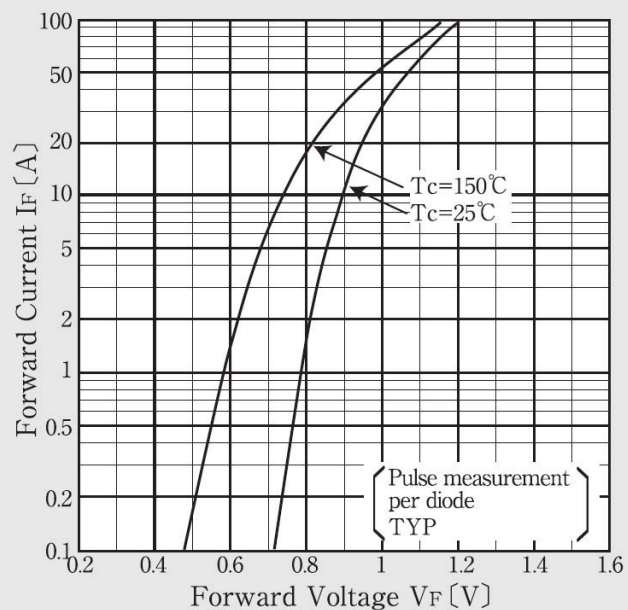
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=25A, Pulse measurement, per diode			1.05	V
Reverse current	I_R	VR=800V, Pulse measurement, per diode			10	μA
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.5	°C/W

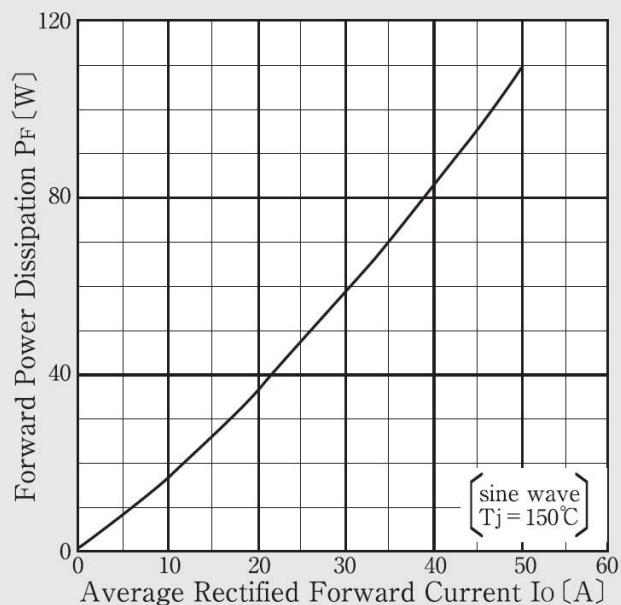
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

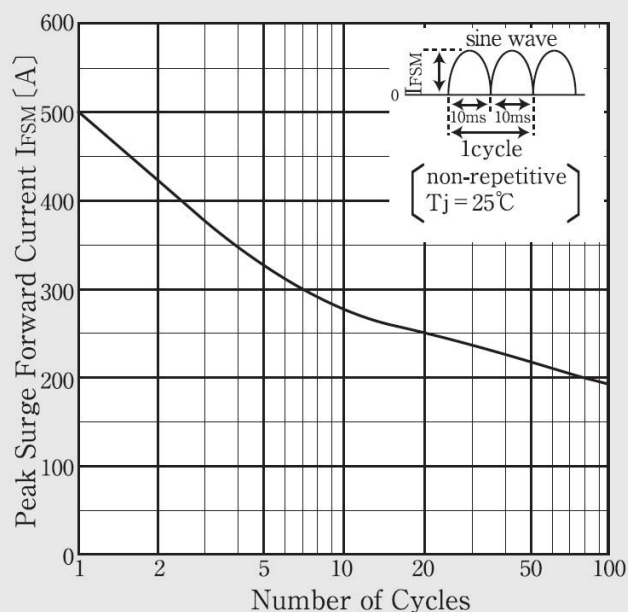
Forward Voltage



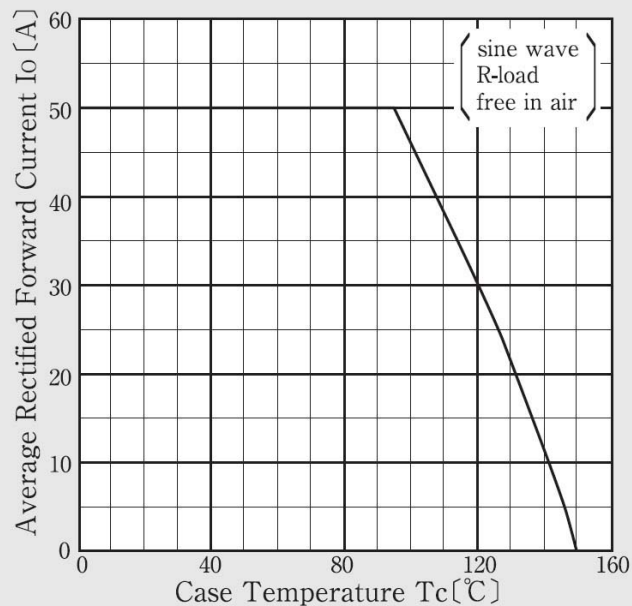
Forward Power Dissipation



Peak Surge Forward Current Capability



Derating Curve



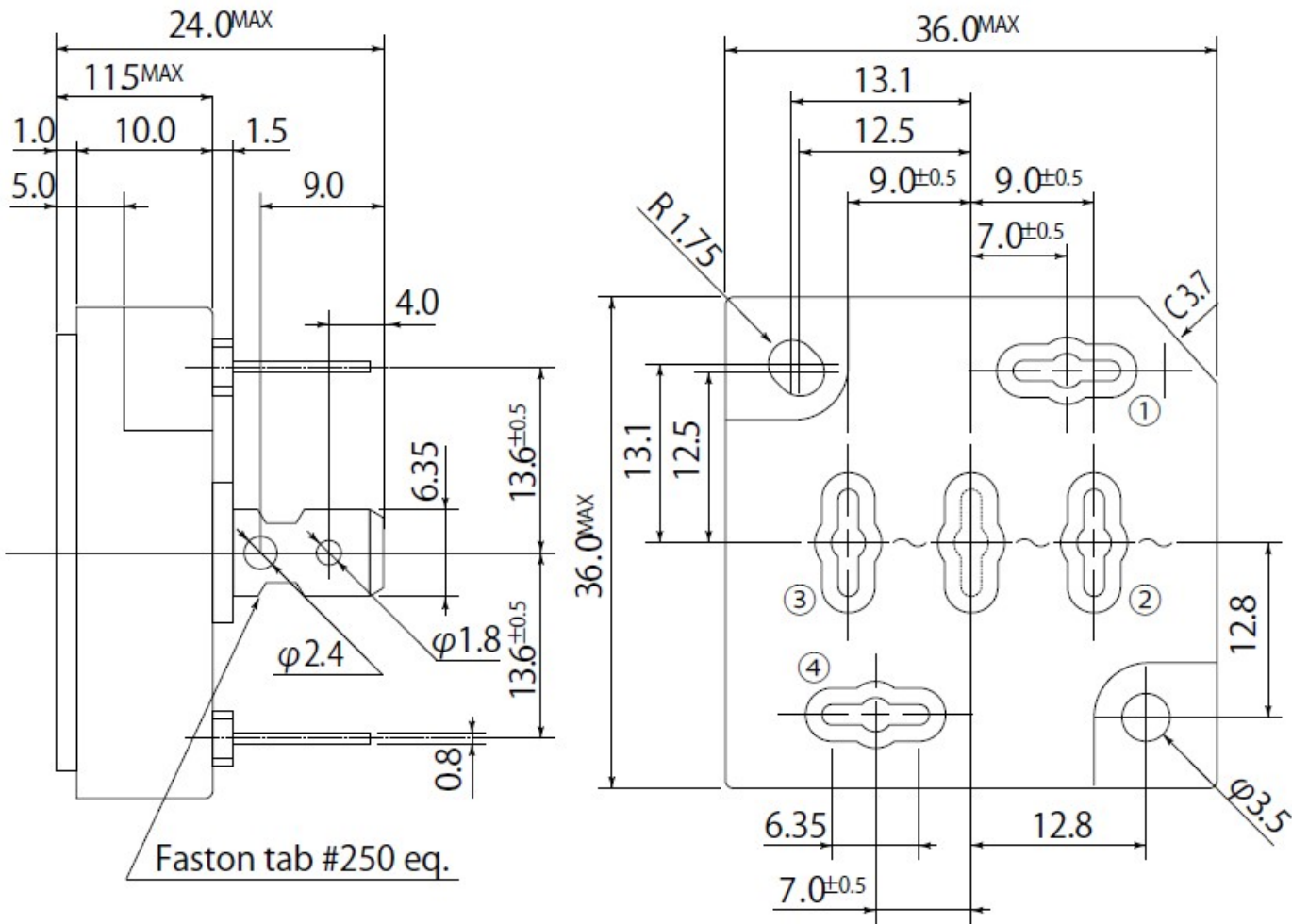
Outline Dimensions	
Outline Dimensions	

unit:mm

E9

JEDEC Code	—
JEITA Code	—
House Name	S50VB

*: IO-30Aを超えてのご使用の場合は、ファストン端子の下側の穴をはんだで埋めて下さい。
 溝、外部接続は、リード線とし、はんだ付けにて接続して下さい。
 *: In case of over 30A of IO, bigger fasten hole should be filled by solder.
 Lead-Wire with solder connection also requested for over 30A of IO



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