

YBS3005 THRU YBS3010
BRIDGE RECTIFIERS



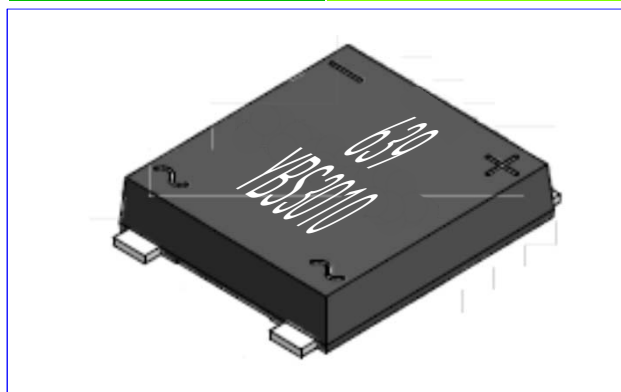
VOLTAGE 50 THRU 1000 Volts **CURRENT** 3.0 Amperes **TMBF** Unit:Inch(mm)

FEATURES

- Glass passivated chip
- High surge forward current capability

TYPICAL APPLICATIONS

- General purpose 1 phase Bridge rectifier applications



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C(UNLESS OTHERWISE NOTED))

Maximum Ratings

Item	Symbol	Unit	Conditions	YBS30						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I _O	A	60Hz sine wave, R-load, T _c =70°C	3.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _j =25°C	95						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25°C, Rating of per diode	33						
Storage Temperature	T _{stg}	°C		-55 ~+150						
Junction Temperature	T _j	°C		-55 ~+150						

Electrical Characteristics

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	V _{FM}	V	I _{FM} =1.5A, Pulse measurement, Rating of per diode	1.02	
			I _{FM} =3.0A, Pulse measurement, Rating of per diode	1.1	
Peak Reverse Current	I _{RRM}	μA	V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode	T _j =25°C	5
				T _j =125°C	500
Thermal Resistance	R _{θ J-A}	°C/W	Between junction and ambient	55	
	R _{θ J-L}		Between junction and lead	15	
	R _{θ J-C}		Between junction and case	10	

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**RATING AND CHARACTERISTIC CURVES
(TA=25°C (UNLESS OTHERWISE NOTED))**

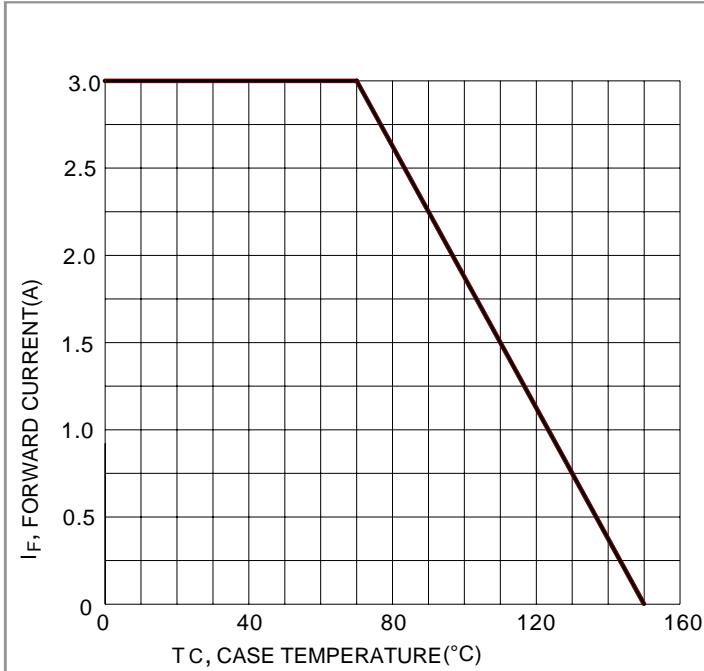


Fig.1-FORWARD CURRENT DERATING CURVE

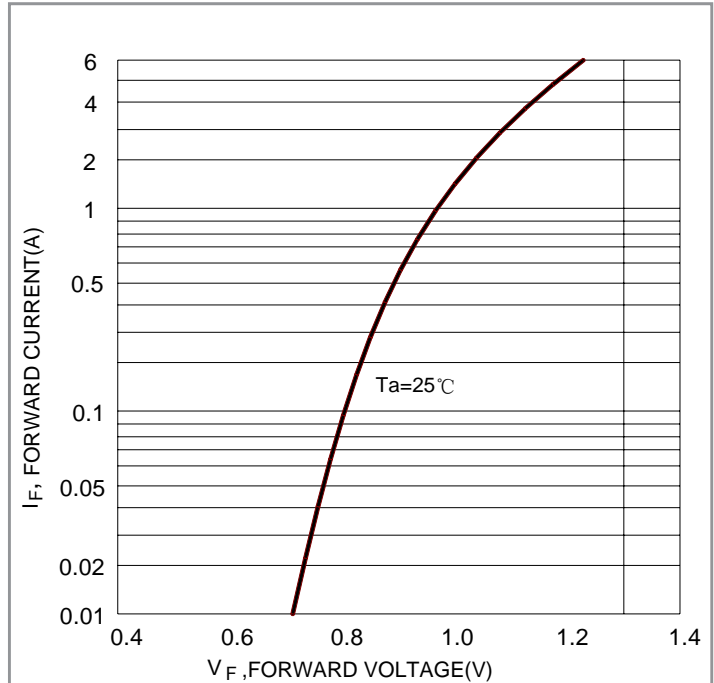


Fig.2-TYPEICAL FORWARD CHARACTERISTICS

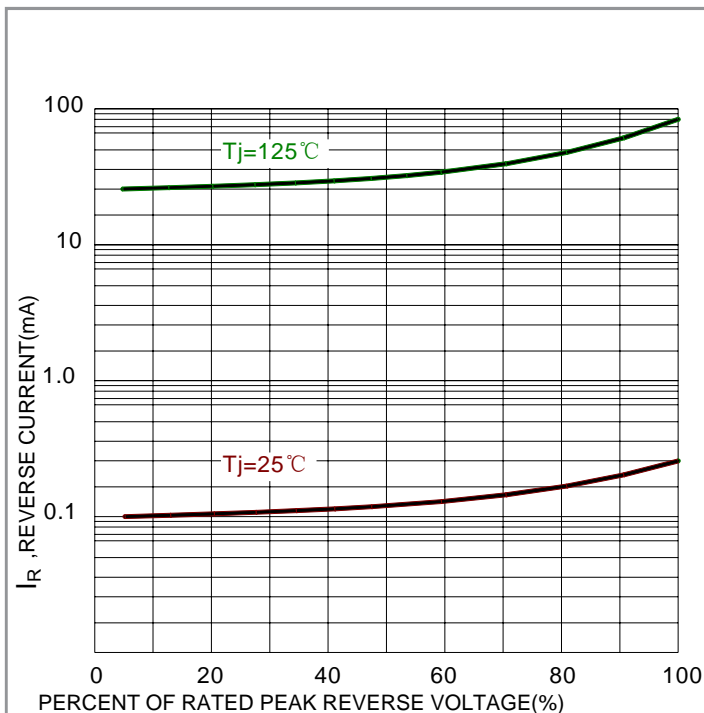


Fig.3-TYPICAL REVERSE CHARACTERISTICS

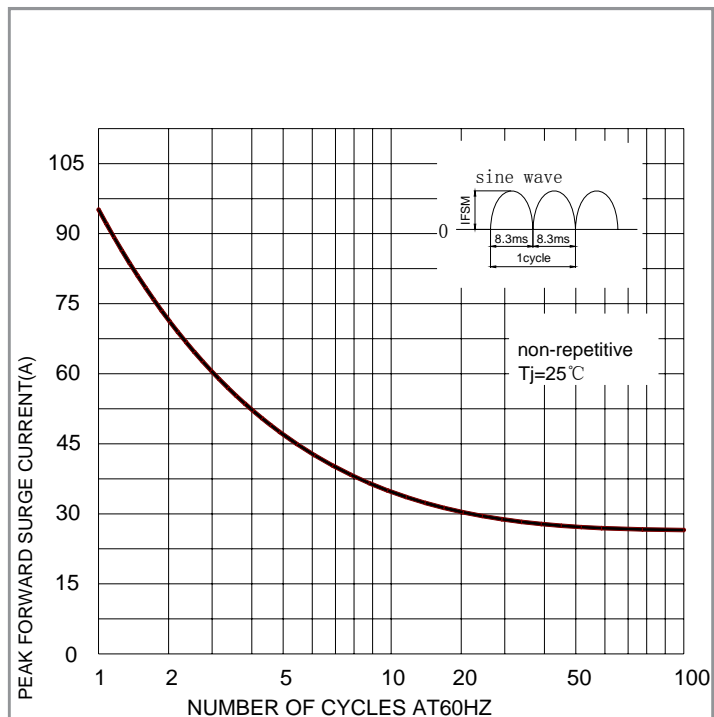


Fig.5-MAX. NON-REPETITIVE SURGE CURRENT

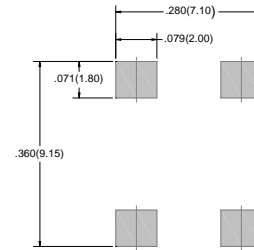
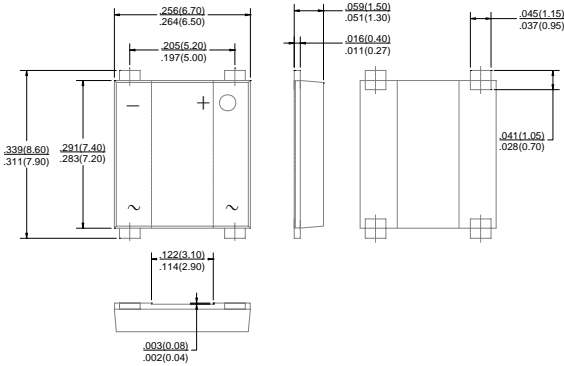
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OUTLINE DRAWINGS AND MOUNTING PAD LAYOUT

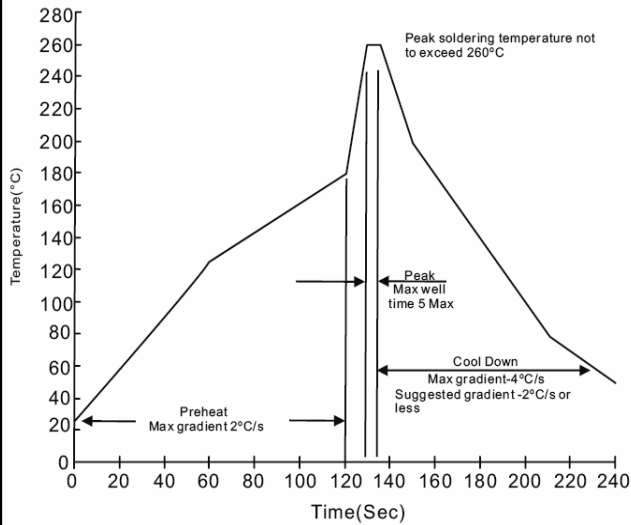
TMBF

Unit : inch(mm)



SUGGESTED THERMAL PROFILES FOR SOLDERING PROCESSES

LEAD FREE TEMPERATURE PROFILE WAVE-SOLDERING



ORDER INFORMATION

- Packing information

Product code	Pack	Box Size L×W×H (mm)	Quantity (pcs/box)	Carton Size L×W×H (mm)	Quantity (box/carton)
YBS3005 THRU YBS3010	T/R	350×350×40	3000	360×360×210	5

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