SAMYANG ELECTRONICS

D3UB05 --- D3UB100

GLASS PASSIVATED BRIDGE RECTIFIERS

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 3.0 A

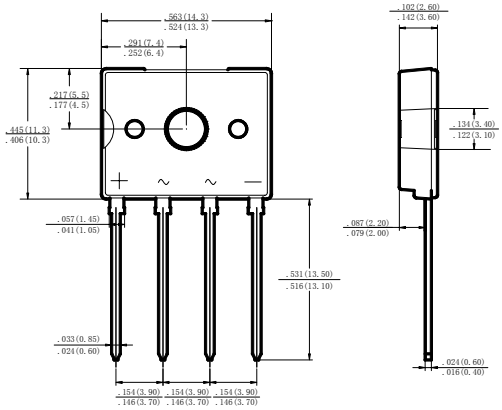
FEATURES

- ◇ Rating to 1000V PRV
- ◇ Glass passivated chip
- ◇ High surge forward current capability

Applications

- ◇ General purpose 1 phase Bridge rectifier applications

D3K



Dimensions in inches and (millimeters)

■ Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Conditions		D3UB						
					05	10	20	40	60	80	100
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	Without heatsink Ta=29℃	1.2						
				With heatsink Tc=140℃	3.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_j=25℃		90						
Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃, Rating of per diode		35						
Storage Temperature	T_{stg}	℃			-55 ~+150						
Junction Temperature	T_j	℃			-55 ~+150						
Dielectric Strength	V_{dis}	KV	Terminals to case, AC 1 minute		2						
Mounting Torque	Tor	kg • cm	Recommend torque: 5kg • cm		8						

■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=1.5A, Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM}, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	℃/W	Between junction and ambient, Without heatsink	55
	$R_{\theta J-C}$		Between junction and case, With heatsink	1.5

FIG1:Io-Tc Curve

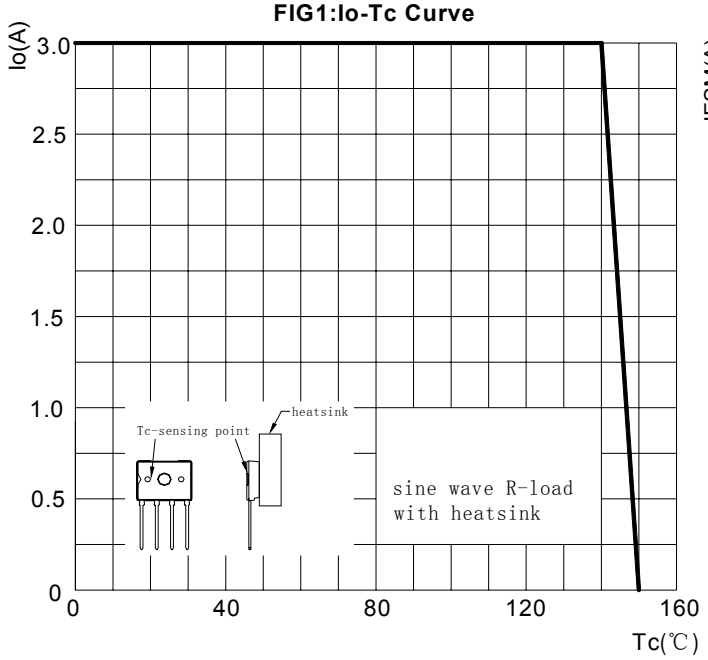


FIG2:Surge Forward Current Capadility

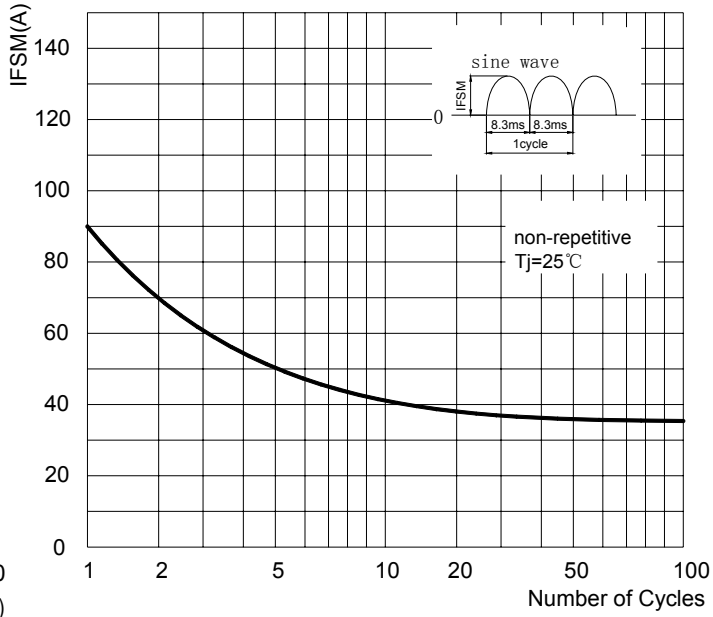


FIG3: Forward Voltage

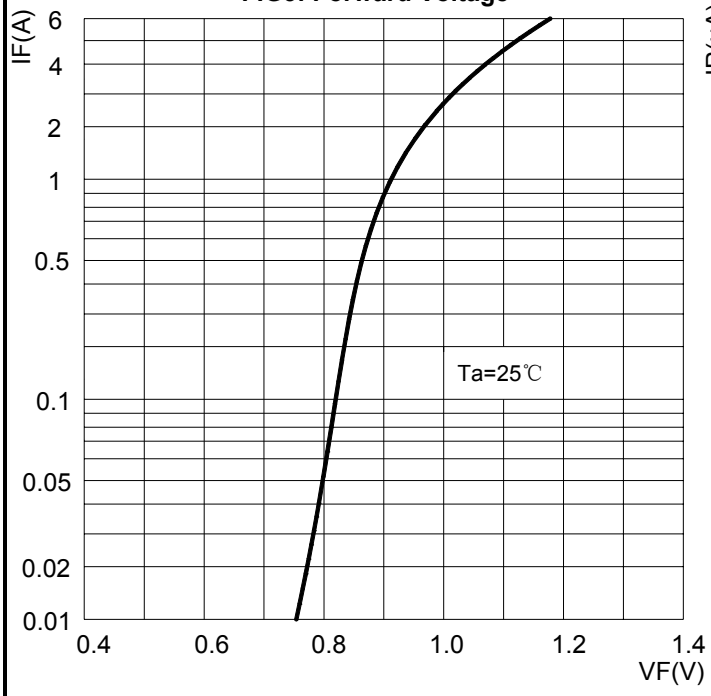


FIG4:Typical Reverse Characteristics

