

## SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE : 50 --- 1600 V CURRENT: 50.0 A

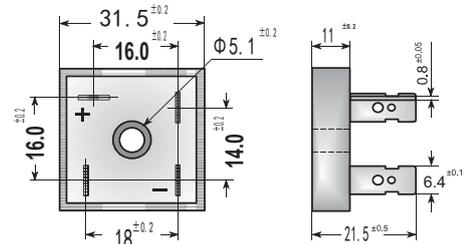
### FEATURES

- Nominal current : 50 A
- Alternating input voltage: 50-1000 V
- Plastic case with alu-bottom (Index P)

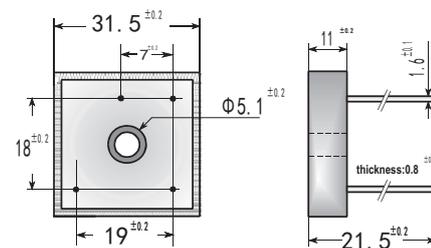
### MECHANICAL DATA

- Case style: GBPC plastic molded
- Dimensions: 31.5 x 31.5 x 11 [mm]
- Weight approx: 23 g
- Standard packaging bulk

#### TYPE: F/FP



#### TYPE: W/WP



Dimensions / Ma in mm

## MAXIMUM RATINGS AND CHARACTERISTICS

		GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010	GBPC 5012	GBPC 5014	GBPC 5016	UNITS
Maximum recurrent peak reverse voltage	$V_{RR}$	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	800	900	1000	V
Max. current with cooling fin 300 cm <sup>2</sup> TA=50 °C R-load	$I_{F(AV)}$	50.0									A
Repetitive peak forward current Peak forward surge current,50Hz half sine-wave	$I_{FRM}$	150 A 500 A									A
Forward voltage @ $I_F=25A$ $T_J=25\text{ °C}$	$V_F$	1.2									V
Leakage current $T_J=25\text{ °C}$ $V_R=V_{RRM}$	$I_R$	10.0									μA
Isolation voltage terminals to case	$V_{ISO}$	2500									V
Thermal resistance junction to case	$R_{thC}$	2.0									K/W
Admissible torque for mounting M 5		2 ± 10 %									Nm
Rating for fusing ,t< 10 ms	$i^2 t$	1250									A <sup>2</sup> S
Operating junction temperature range	$T_J$	-40...+150									°C
Storage temperature range	$T_{STG}$	-40...+150									°C



# RATINGS AND CHARACTERISTIC CURVES

