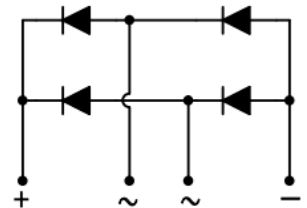
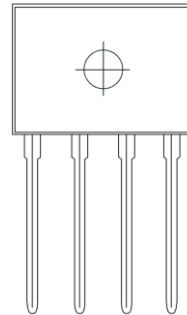


FEATURES AND BENEFITS

Product Summary		
V_{RRM}	1000V	@25 °C
I_F	6.0A	@25 °C
V_F	1.3V	@ $I_F=3.0A$
I_R	5.0uA	@25 °C

- Glass passivated die construction
- Low reverse leakage
- High surge current capability
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Weight: 1.38 grams (Approximate)

GBP



Maximum Ratings (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	GBP 6T02	GBP 6T04	GBP 6T06	GBP 6T08	GBP 6T10	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current	$I_{F(AV)}$	6.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150					A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	93					A ² s
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150					°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	55.0	°C/W

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	GBP 6T02	GBP 6T04	GBP 6T06	GBP 6T08	GBP 6T10	UNIT
Forward Voltage I _F =3.0A	V _F	1.30					V
Peak Reverse Current @T _A =25°C	I _R	5.0					uA
At Rated DC Blocking Voltage @T _A =125°C		500					
Reverse Recovery Time (Note 1)	t _{rr}	150		250	500		ns

Note:

- Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

RATING AND CHARACTERISTICS CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

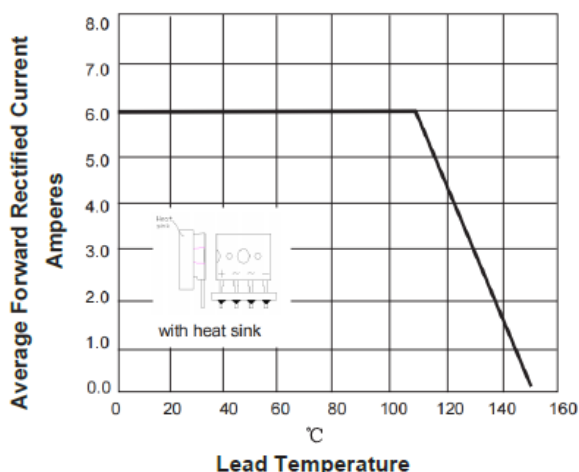


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

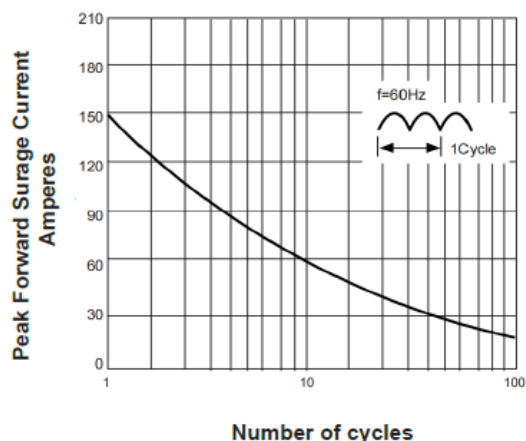


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

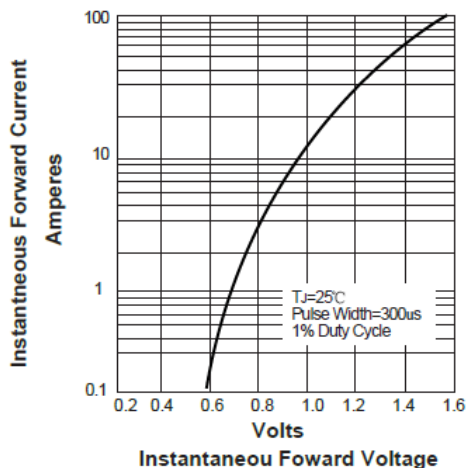
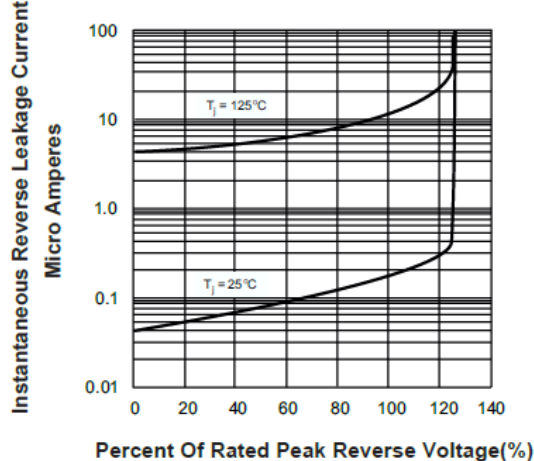
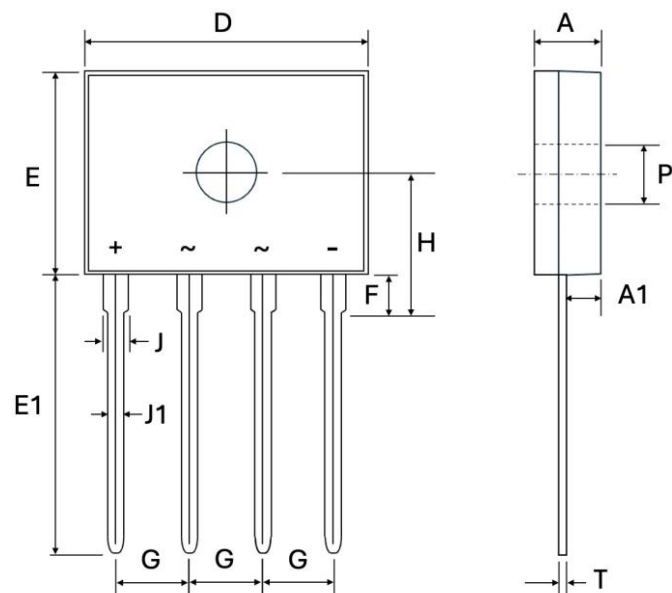


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

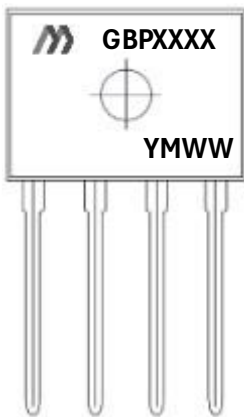
GBP



Symbol	MIN	MAX
A	3.30	3.60
A1	1.80	2.40
D	14.20	14.70
E	10.20	10.60
E1	13.80	14.40
F	1.80	2.20
G	3.71	3.91
H	6.65	7.25
J	1.22	1.42
J1	0.76	0.86
P	3.0Φ	3.4Φ
T	0.30	0.55
Unit: mm		

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
GBP6T02	GBP6T02	35	Tube
GBP6T04	GBP6T04	35	Tube
GBP6T06	GBP6T06	35	Tube
GBP6T08	GBP6T08	35	Tube
GBP6T10	GBP6T10	35	Tube



Y: Last digit of year (5 for 2025)

M: Manufacture's code

WW: Week code (01 to 53)

GBPXXXX: Device marking code

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