

- Typical IR less than 0.2µA
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC



GBPC



GBPC-W



GBPC-M

MECHANICAL DATA

Case: GBPC

Molding compound, UL flammability classification rating 94V-0

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: Polarity as marked on the body

Mounting torque: 20 in-lbs maximum

Weight: 16.95 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	-005	-01	-02	-04	-06	-0
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800
Maximum average forward rectified current GBPC15 GBPC25 GBPC35	I _{F(AV)}				15 25 35		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				300 300 400		
Maximum instantaneous forward voltage drop per element at specified current (Note 1)	V _F	GBPC15 7.5A GBPC25 12.5A GBPC35 17.5A			1.1		
Maximum reverse current @ Rated VR @ T _J =25°C	I _R				5		
Typical thermal resistance	R _{θJC}				1.5		
Operating junction temperature range	T _J				- 55 to +150		
Storage temperature range	T _{STG}				- 55 to +150		

Note 1: Pulse test with PW=300µs, 1% duty cycle

Note 2: Suffix "W" - Wire Lead Structure / "M" - Terminal Location Face to Face

EXAMPLE			
PREFERRED P/N	PART NO.	PACKING CODE	DESCRIPTION
GBPC15-10 T0	GBPC15-10	T0	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

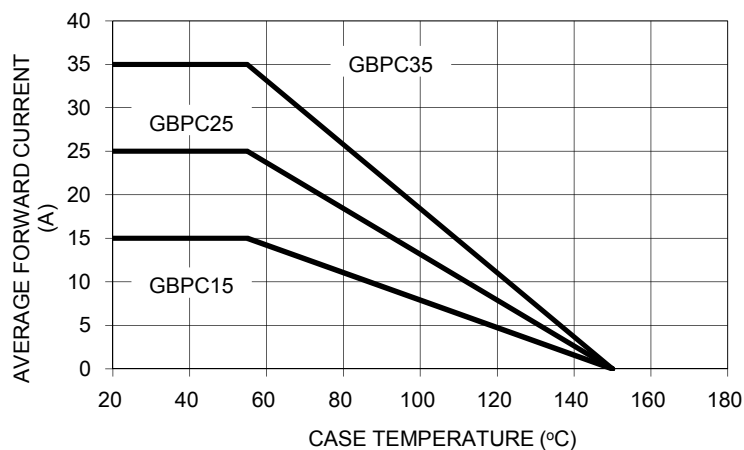


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

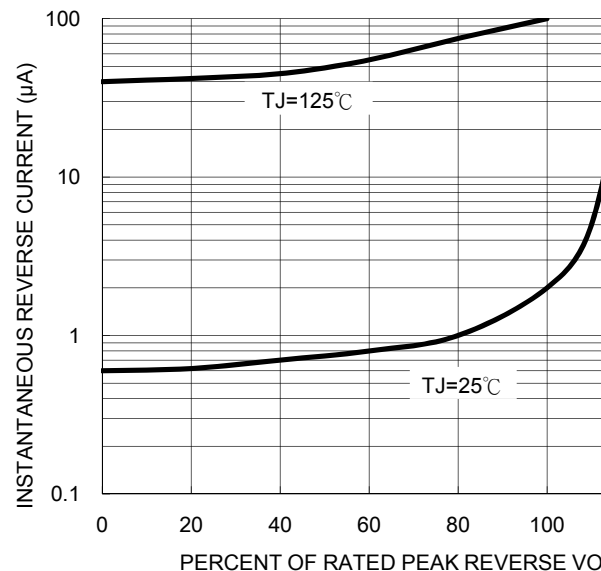


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

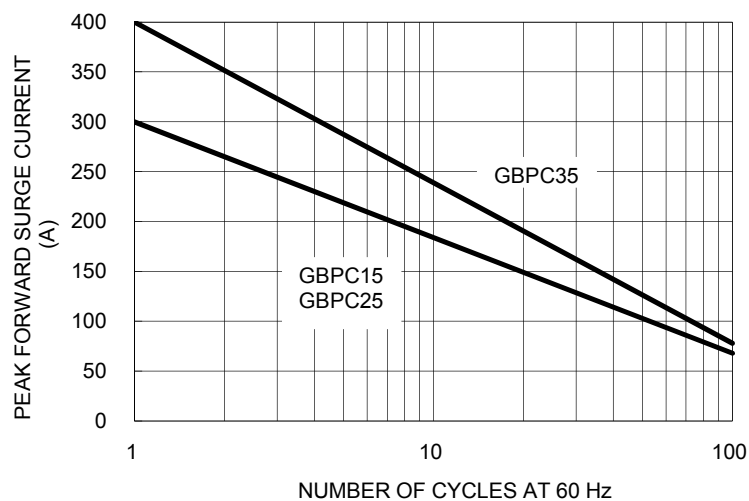
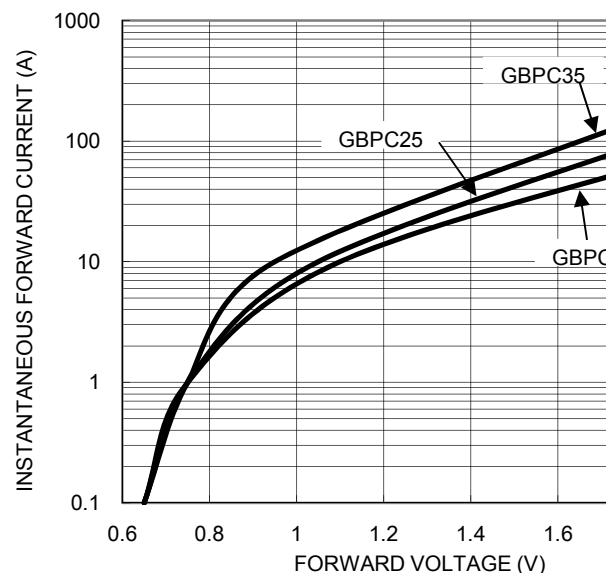
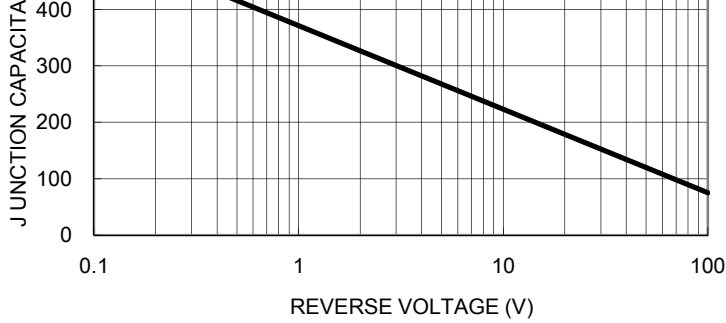
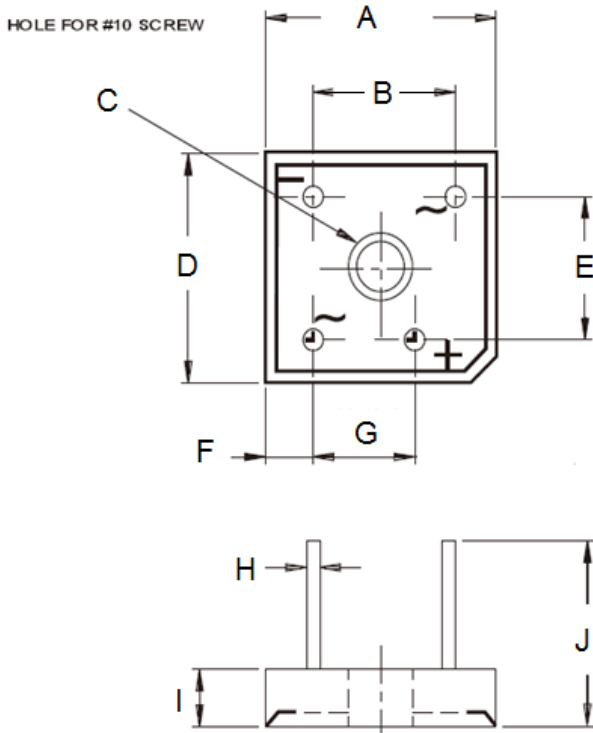
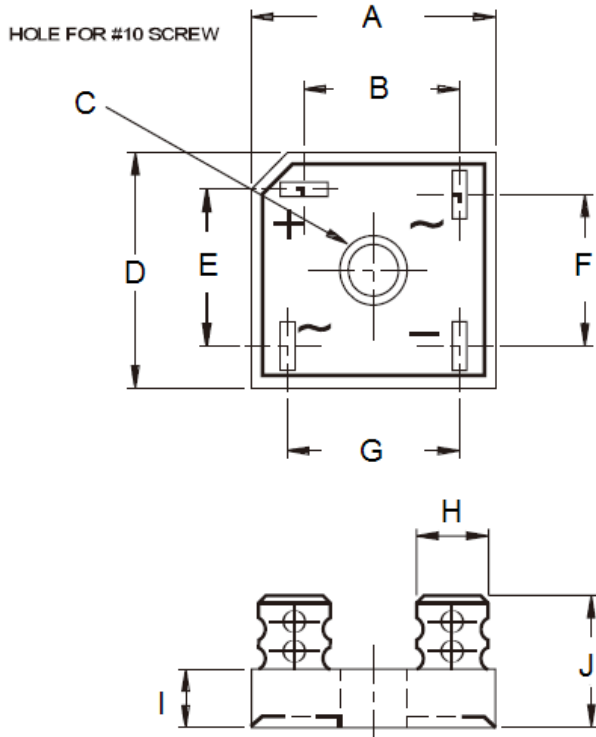


FIG. 4 TYPICAL FORWARD CHARACTERISTICS



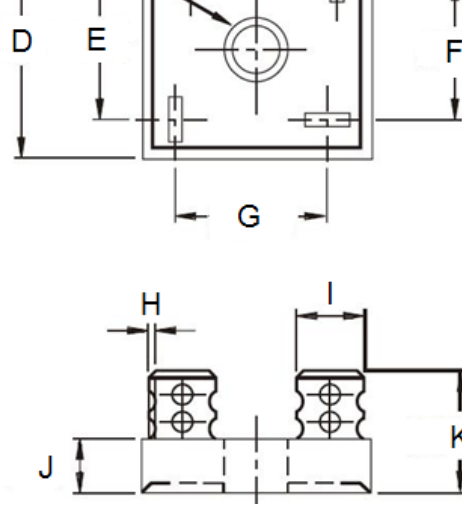


PACKAGE OUTLINE DIMENSIONS



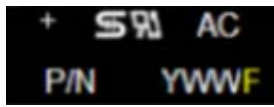
GBPC				
DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	28.50	29.00	1.122	1.142
B	15.50	17.60	0.610	0.693
C	5.08	5.59	0.200	0.220
D	28.50	29.00	1.122	1.142
E	15.50	17.60	0.610	0.693
F	13.30	15.30	0.524	0.602
G	17.10	19.10	0.673	0.752
H	6.35 (TYP)		0.25 (TYP)	
I	10.97	11.23	0.432	0.442
J	21.50	24.50	0.846	0.965

GBPC-W				
DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	28.50	29.00	1.122	1.142
B	17.10	19.10	0.673	0.752
C	5.08	5.59	0.200	0.220
D	28.50	29.00	1.122	1.142
E	17.10	19.10	0.673	0.752
F	4.40	6.20	0.173	0.244
G	10.40	12.40	0.409	0.488
H	0.97	1.07	0.038	0.042
I	10.97	11.23	0.432	0.442
J	30.50	-	1.201	-



B	15.50	17.60	0.610	0.0
C	5.08	5.59	0.200	0.0
D	28.50	29.00	1.122	1.0
E	15.50	17.60	0.610	0.0
F	15.50	17.60	0.610	0.0
G	15.50	17.60	0.610	0.0
H	0.76	0.86	0.030	0.0
I	6.6 (TYP)		0.26 (TYP)	
J	10.97	11.23	0.432	0.0
K	21.26	24.57	0.837	0.0

MARKING DIAGRAM



P/N = Specific Device Code
 YWW = Date Code
 F = Factory Code

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, of any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1312015

Ve