



## GP100Y~GP110Y GENERAL PURPOSE RECTIFIER

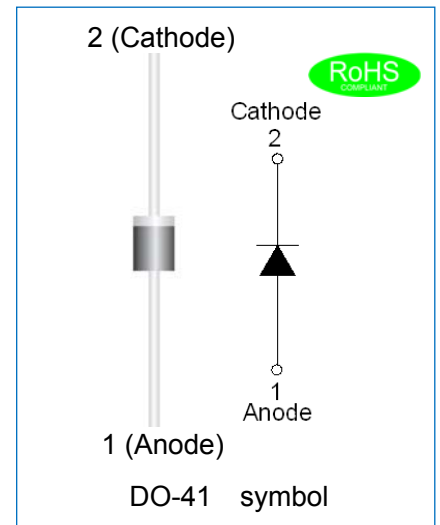
Rev.1.4

### DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Glass passivated chip junction
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- ✧ Case: DO-41 molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.30 gram



### ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

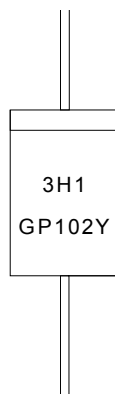
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	GP100Y	GP101Y	GP102Y	GP104Y	GP106Y	GP108Y	GP110Y	Unit	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum average forward current at $T_A=50^\circ\text{C}$	$I_{F(AV)}$	1.0							A	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	30							A	
Maximum forward voltage @ $I_F=1\text{A}$	$V_F$	1.1							V	
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^\circ\text{C}$	$I_R$							5	$\mu\text{A}$
	$T_j=150^\circ\text{C}$								150	$\mu\text{A}$
Typical junction capacitance $V_R=4.0\text{V}$ , $f=1\text{MHz}$	$C_J$	6							pF	
Operating junction and storage temperature range	$T_j, T_{stg}$	-55 to +150							$^\circ\text{C}$	

## THERMAL RESISTANCES

Symbol	Parameter	GP100Y	GP101Y	GP102Y	GP104Y	GP106Y	GP108Y	GP110Y	Unit
$R_{th(j-a)}$	Junction to ambient	50							$^{\circ}\text{C}/\text{W}$

## MARKING



GP	General Purpose Rectifier
1	$I_{F(AV)}=1\text{A}$
02	$V_{RRM}:200\text{V}$
Y	Package:DO-41

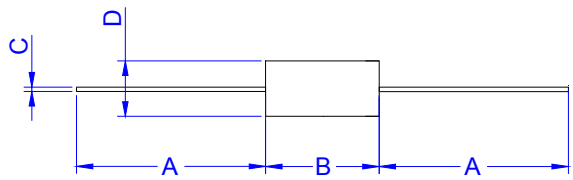
xH1: Month, 1、2、3 ~ 9、A、B、C

3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number

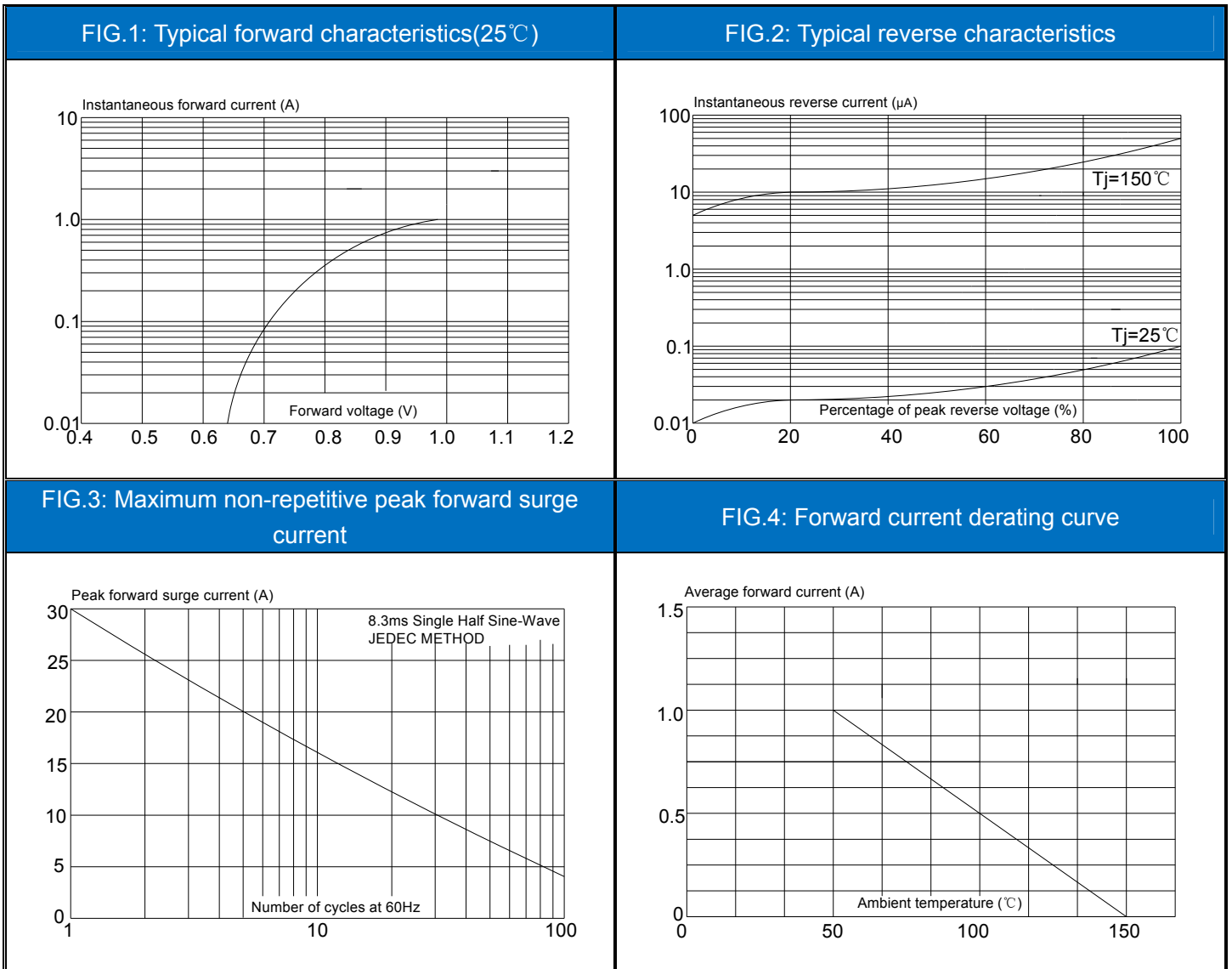
## PACKAGE MECHANICAL DATA

 <p style="text-align: center;">DO-41</p>	Ref.	Dimensions			
		Millimeters		Inches	
		Min.	Max.	Min.	Max.
		A	25.40	-	1.000
B	4.90	5.30	0.193	0.209	
C	0.69	0.89	0.027	0.035	
D	2.40	2.80	0.095	0.110	

## PACKAGE INFORMATION-DO-41

OUTLINE	UNIT WEIGHT (g/PCS) typ.	INNER BOX (PCS)	PER CARTON (PCS)
Bulk	0.30	5,000	50,000

CHARACTERISTICS CURVE



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 1.4th version which is made in 28-Nov.-2019. This document supersedes and replaces all information previously supplied.

 is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.

Copyright©2019 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.