



## GP200Y~GP210Y GENERAL PURPOSE RECTIFIER

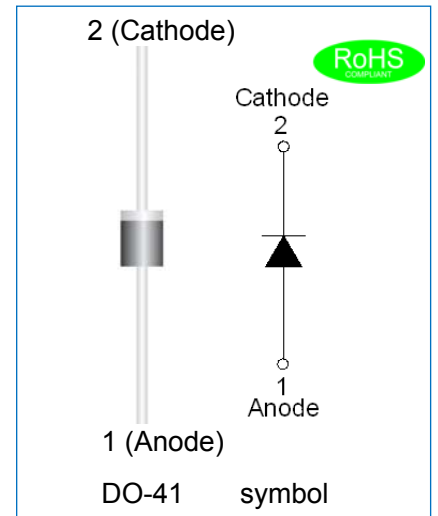
Rev.1.0

### 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: JEDEC 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

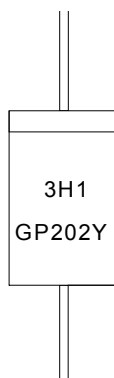
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	GP200Y	GP201Y	GP202Y	GP204Y	GP206Y	GP208Y	GP210Y	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 $T_A=70^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	60							A
Maximum forward voltage @ $I_F=2\text{A}$	$V_F$	1.1							V
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^\circ\text{C}$	5							$\mu\text{A}$
	$T_j=125^\circ\text{C}$	200							$\mu\text{A}$
Typical junction capacitance $V_R=4.0\text{V}$ , $f=1\text{MHz}$	$C_J$	15							pF
Operating junction and storage temperature range	$T_j, T_{stg}$	-55 to +150							$^\circ\text{C}$

THERMAL RESISTANCES

Symbol	Parameter	GP200Y	GP201Y	GP202Y	GP204Y	GP206Y	GP208Y	GP210Y	Unit
R <sub>th(j-a)</sub>	Junction to ambient	50							°C/W

MARKING



GP	General Purpose Rectifier
2	I <sub>F(AV)</sub> =2A
02	V <sub>RRM</sub> :200V
Y	Package:DO-41

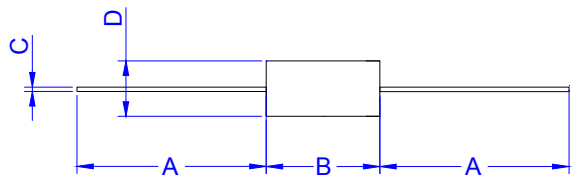
xH1: Month, 1、2、3 ~ 9、A、B、C

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

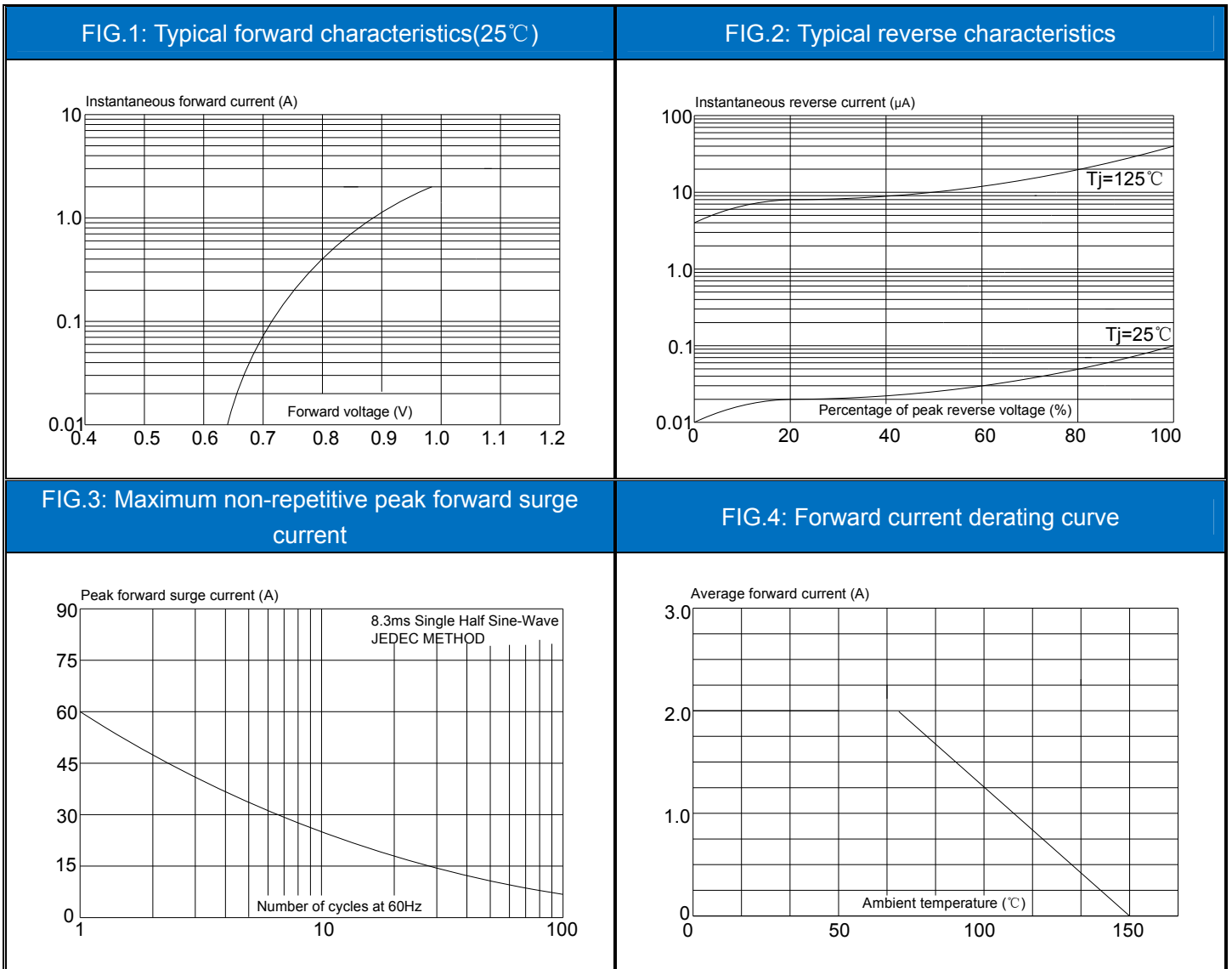
PACKAGE MECHANICAL DATA

 <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



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