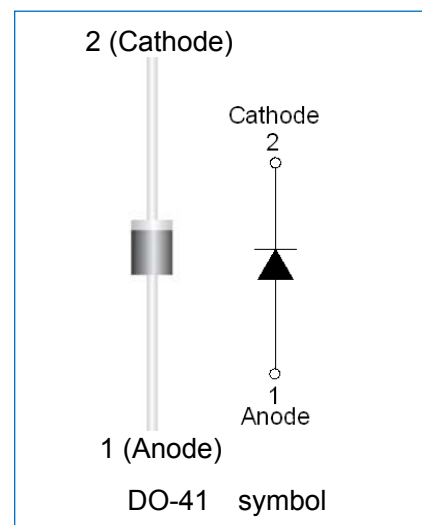


DESCRIPTION

- ✧ 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

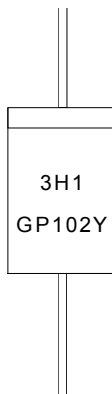
(Rating at 25°C ambient temperature unless otherwise specified.)

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							μA
	$T_J=150^\circ\text{C}$		150							μA
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							°C/W

MARKING



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

xH1: Month, 1、2、3 ~ 9、A、B、C

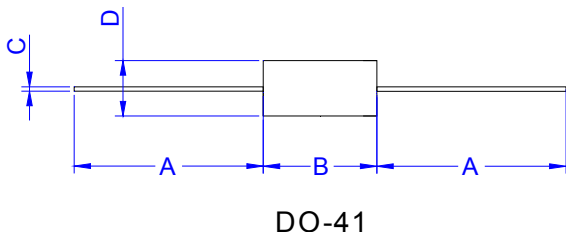
3x1:

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

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

FIG.1: Typical forward characteristics(25°C)

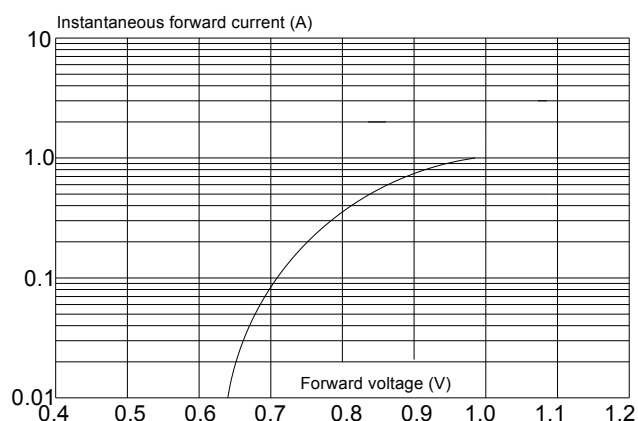


FIG.2: Typical reverse characteristics

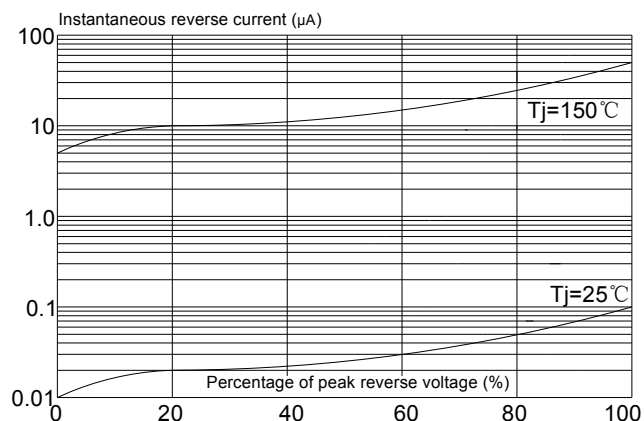


FIG.3: Maximum non-repetitive peak forward surge current

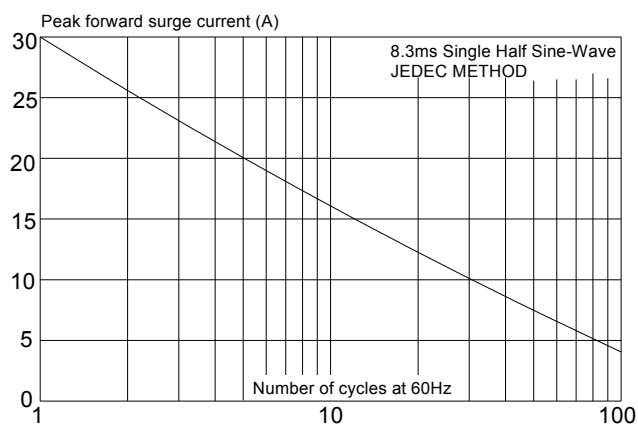


FIG.4: Forward current derating curve

