G1001xY THRU G1010xY

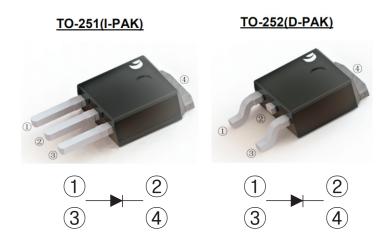
GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 100 to 1000 V

Forward Current - 10 A

FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- · High temperature soldering guaranteed
- Mounting position: any



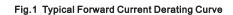
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

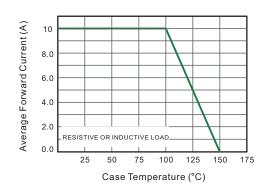
CHARACTERISTICS	TO-251	G1001VY	G1002VY	G1004VY	G1006VY	G1008VY	G1010VY					
CHARACTERISTICS	TO-252	G1001DY	G1002DY	G1004DY	G1006DY	G1008DY	G1010DY	Units				
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V				
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	V				
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V				
Maximum Average Forward Rectified Current	I _{F(AV)}	10										
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	180										
Max Instantaneous Forward Voltage at 10 A DC	V_{F}	1.1										
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =125°C	I _R	5 500										
Typical Junction Capacitance (1)	C_{j}	150										
Typical Thermal Resistance (2)	$R_{\theta JA}$	50										
Operating Junction Temperature Range	Tj	-55 ~ +150										
Storage Temperature Range	T_{stg}	-55 ~ +150										

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 10cmX10cmX1mm copper pad areas.

G1001xY THRU G1010xY





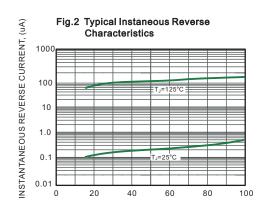


Fig.3 Typical Forward Characteristic

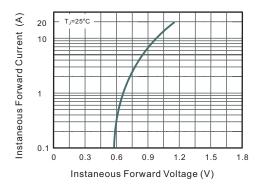


Fig.4 Typical Junction Capacitance

Percent of rated peak reverse voltage (%)

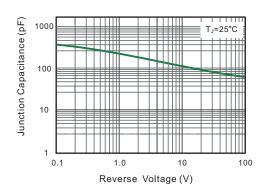


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

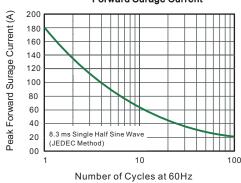
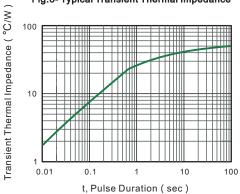
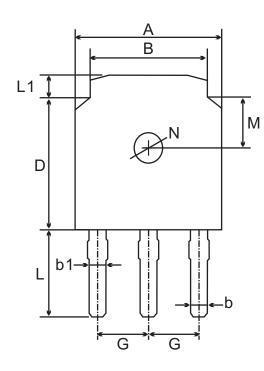
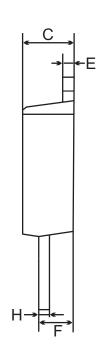


Fig.6- Typical Transient Thermal Impedance



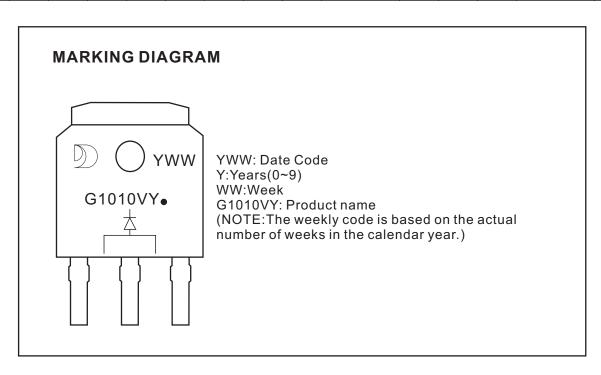
TO-251(I-PAK) Package Outline Dimensions



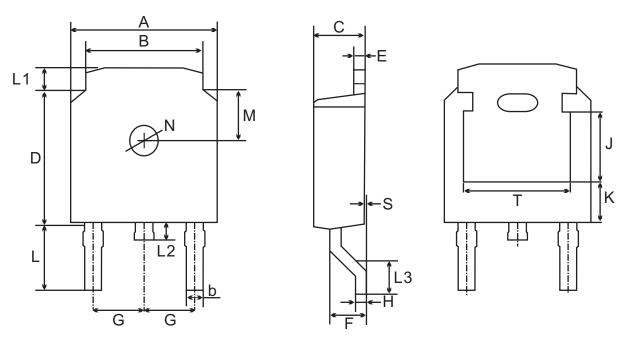


TO-251(I-PAK) mechanical data

UN	VIT	Α	В	b	b1	С	D	Е	F	G	Н	L	L1	М	N	
mm	max	6.7	5.5	0.86	0.9	2.5	6.3	0.6	1.8	2.29	0.55	4.3	1.2	1.8	1.3	
mm	min	6.3	5.1	0.66	0.76	2.1	5.9	0.4	1.3	TYPICAL	0.45	3.9	0.8	TYPICAL	TYPICAL	
mil	max	264	217	34	35	98	248	24	71	90	22	169	47	71	51	
''''	min	248	201	26	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL	

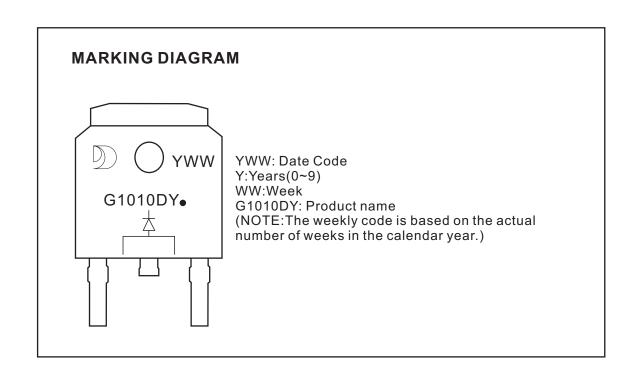


TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	1IT	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	K	Т
	max	6.7	5.5	0.86	2.5	6.3	0.6	1.8	2.29 TYPICAL	0.55	3.1	1.2	1.0	1.75	0.1	1.8 TYPICAL			1.80 ref.	4.83 ref.
mm	min	6.3	5.1	0.66	2.1	5.9	0.4	1.3		0.45	2.7	8.0	0.6	1.40	0.0					
mil	max	264	217	34	98	248	24	71	90	22	122	47	39	69	4	71	51	124	71	190
	min	248	201	26	83	232	16	51	TYPICAL	18	106	31	24	55	0	TYPICAL	TYPICAL	ref.	ref.	ref.



2021.04 Page 4 of 5

Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.
Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Jingdao Microelectronics.

Jingdao Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of Jingdao Microelectronics.

2021.04 Page 5 of 5