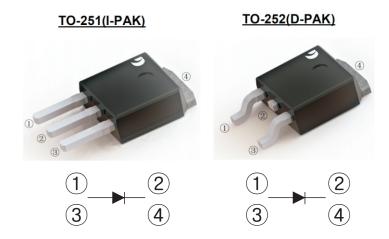
GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 1200 V Forward Current - 12 A

FEATURES

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

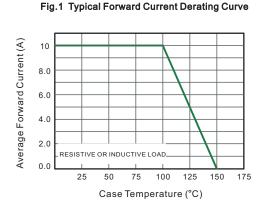


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified

CHARACTERISTICS	TO-251	G1012VY G1012DY						
CHARACTERISTICS	TO-252							
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1200	٧					
Maximum RMS voltage	V _{RMS}	840	V					
Maximum DC Blocking Voltage	V _{DC}	1200	V					
Maximum Average Forward Rectified Current	I _{F(AV)}	10	А					
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	180	А					
Max Instantaneous Forward Voltage at 10 A DC	V _F	1.1	V					
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a =125°C	I _R	5 500	uA					
Typical Junction Capacitance (1)	C _j	150	pF					
Typical Thermal Resistance (2)	$R_{\theta JA}$	50	°C/W					
Operating Junction Temperature Range	Tj	-55 ~ +150	°C					
Storage Temperature Range	T_{stg}	-55 ~ +150	°C					

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

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



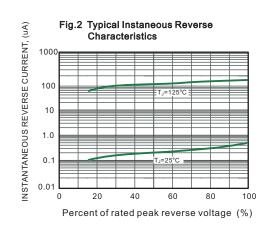


Fig.3 Typical Forward Characteristic

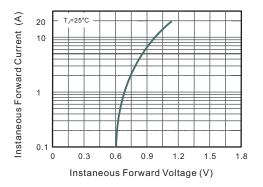
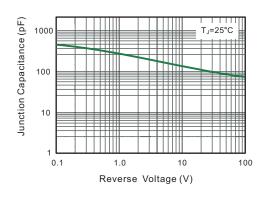
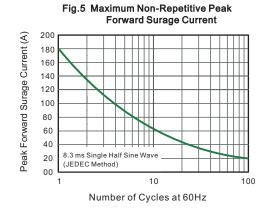
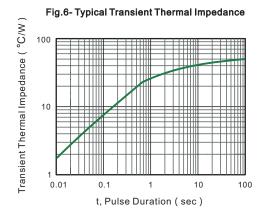


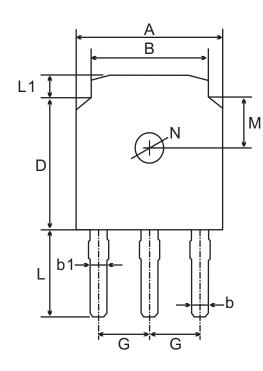
Fig.4 Typical Junction Capacitance

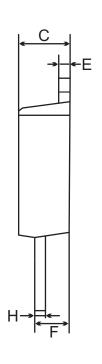






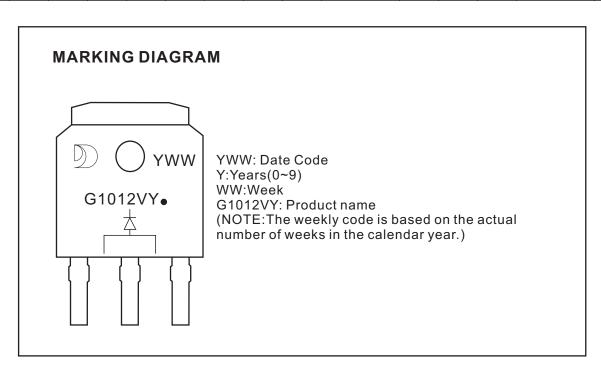
TO-251(I-PAK) Package Outline Dimensions



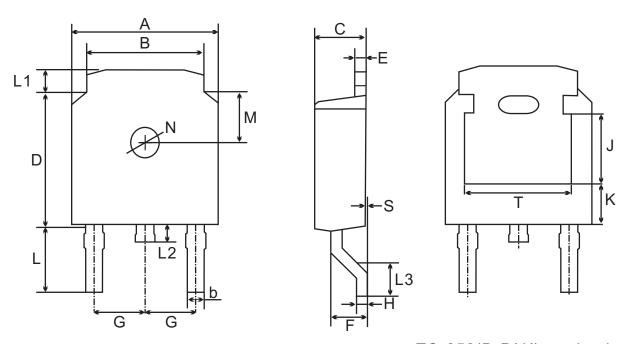


TO-251(I-PAK) mechanical data

UN	VIT	Α	В	b	b1	С	D	Е	F	G	Н	L	L1	М	N
mm	max	6.7	5.5	0.8	0.9	2.5	6.3	0.6	1.8	2.29	0.55	4.3	1.2	1.8	1.3 TYPICAL
"""	min	6.3	5.1	0.3	0.76	2.1	5.9	0.4	1.3	TYPICAL	0.45	3.9	0.8	TYPICAL	
mil	max	264	217	31	35	98	248	24	71	90	22	169	47	71	51
miii	min	248	201	12	30	83	232	16	51	TYPICAL	18	154	31	TYPICAL	TYPICAL

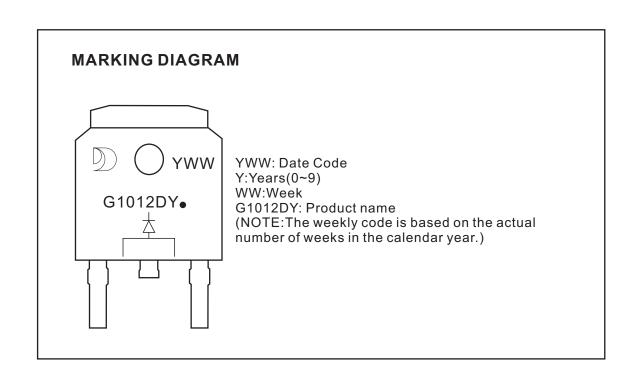


TO-252(D-PAK) Package Outline Dimensions



TO-252(D-PAK) mechanical data

UN	VIT	Α	В	b	С	D	Е	F	G	Н	L	L1	L2	L3	S	М	N	J	K	Т
	max								2.29					1.75		1.0				4.83 ref.
mm	min	6.3	5.1	0.3	2.1	5.9	0.4	1.3	TYPICAL	0.45	2.7	8.0	0.6	1.40	0.0					
	max	264	217	31	98	248	24	71	90	22	122	47	39	69	4	71 TYPICAL	51 TYPICAL	124 ref.	71 ref.	190 ref.
mil	min	248	201	12	83	232	16	51	TYPICAL	18	106	31	24	55	0					



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