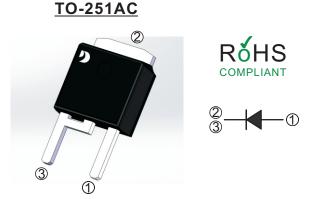
GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 100 to 1000 V

Forward Current - 6.0 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	Symbols	G601V	G602V	G604V	G606V	G608V	G610V	Units		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	400 600		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)}	6.0								
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	160								
Max Instantaneous Forward Voltage at 6A DC	V _F	1.1								
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 125^{\circ}$ C	I _R	5 500								
Typical Junction Capacitance (1)	C _j	60								
Typical Thermal Resistance (2)	R _{θJA}	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.

100



Fig.1 Forward Current Derating Curve

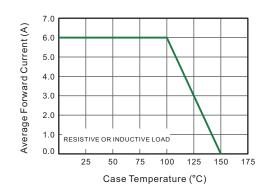


Fig.2 Typical Instaneous Reverse INSTANTANEOUS REVERSE CURRENT, (uA) Characteristics 1000 100 10 1.0 0.1

Fig.3 Typical Forward Characteristic

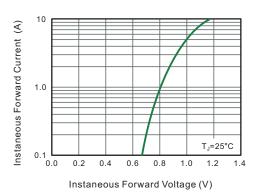


Fig.4 Typical Junction Capacitance

Percent of rated peak reverse voltage (%)

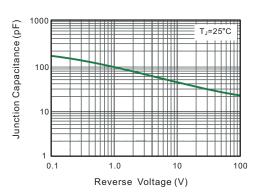


Fig.5 Maximum Non-Repetitive Peak **Forward Surage Current**

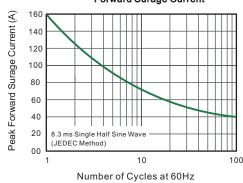
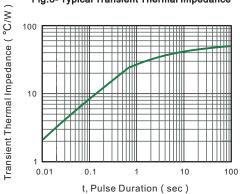
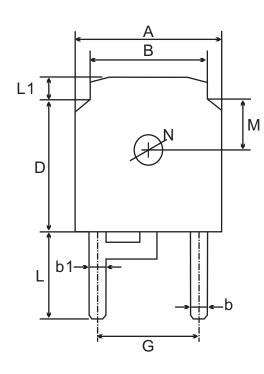
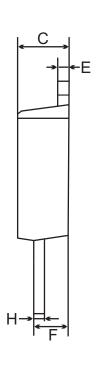


Fig.6- Typical Transient Thermal Impedance



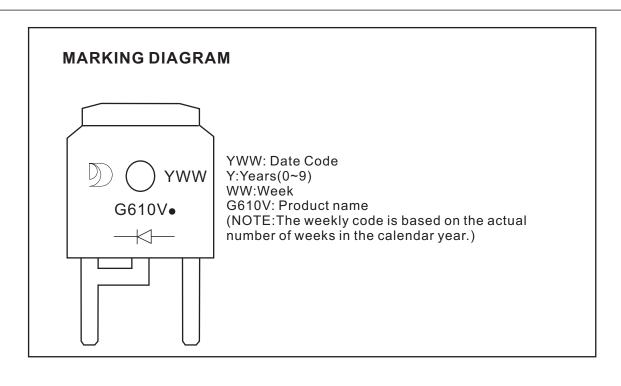
TO-251AC Package Outline Dimensions





TO-251AC mechanical data

10	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	4.60 TYPICAL	0.55	4.3	1.2	1.8 TYPICAL	1.3 TYPICAL
'''''	min	6.3	5.1	0.3	0.76	2.1	5.9	0.4	1.3		0.45	3.9	8.0		
mil	max	264	217	31	35	98	248	24	71	181 TYPICAL	22	169	47	71 TYPICAL	51 TYPICAL
	min	248	201	12	30	83	232	16	51		18	154	31		



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