

SMD Ultra Fast Recovery Rectifiers

COMCHIP
SMD Diodes Specialist

CURA101-G Thru. CURA107-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device

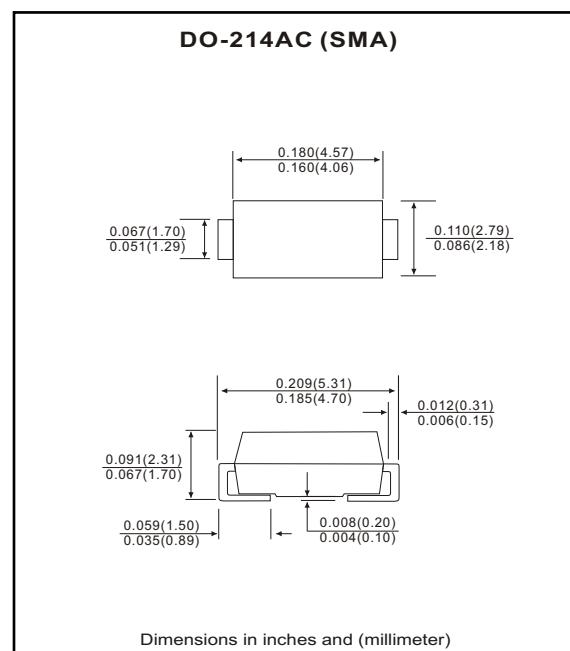


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Ultra fast recovery time: 50~75nS.
- Low leakage current.

Mechanical data

- Case: JEDEC DO-214AC, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.063 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CURA 101-G	CURA 102-G	CURA 103-G	CURA 104-G	CURA 105-G	CURA 106-G	CURA 107-G	Units
Max. repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Max. DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max. RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}					30			A
Max. average forward current	I _o				1.0				A
Max. instantaneous forward voltage at 1.0A	V _F			1.0		1.3		1.7	V
Reverse recovery time	T _{rr}			50			75		nS
Max. DC reverse current at T _A =25°C rated DC blocking voltage T _A =100°C	I _R				5.0	100			µA
Max. thermal resistance (Note 1)	R _{θJL}				42				°C/W
Max. operating junction temperature	T _J				150				°C
Storage temperature	T _{STG}				-55 to +150				°C

Notes: 1. Thermal resistance from junction to lead.

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RATING AND CHARACTERISTIC CURVES (CURA101-G thru CURA107-G)

Fig.1 Reverse Characteristics

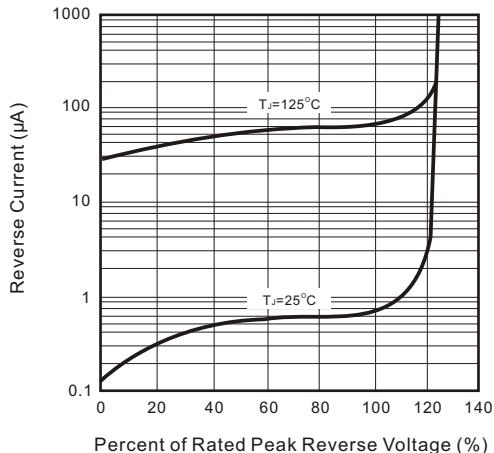


Fig.2 Forward Characteristics

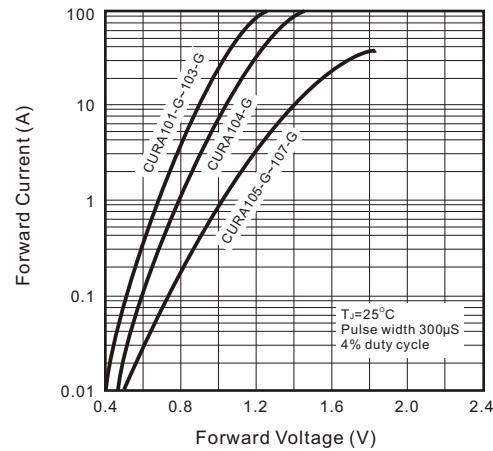


Fig.3 Junction Capacitance

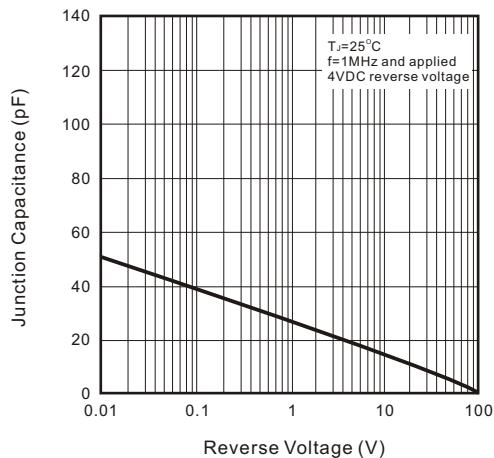


Fig.4 Non-repetitive Forward Surge Current

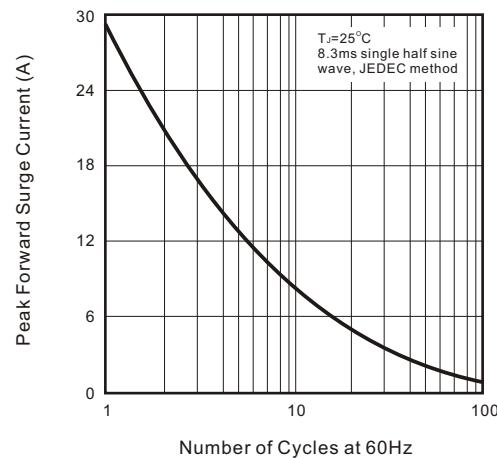


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

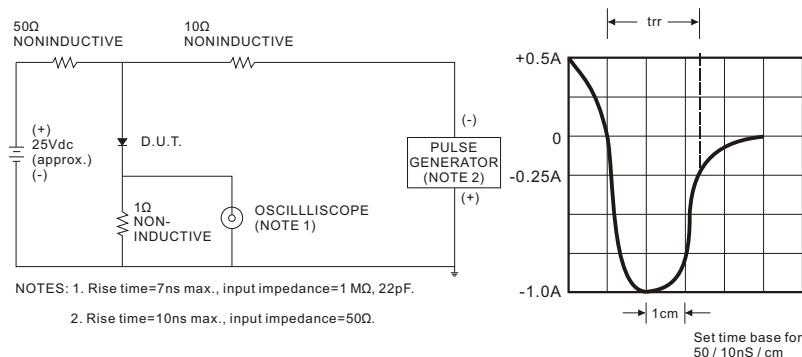


Fig.6 Current Derating Curve

