

SMD Ultra Fast Recovery Rectifiers



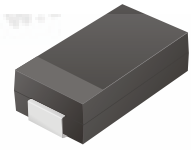
SMD Diodes Specialist

CURB201-G Thru. CUREB207-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Amp

RoHS Device

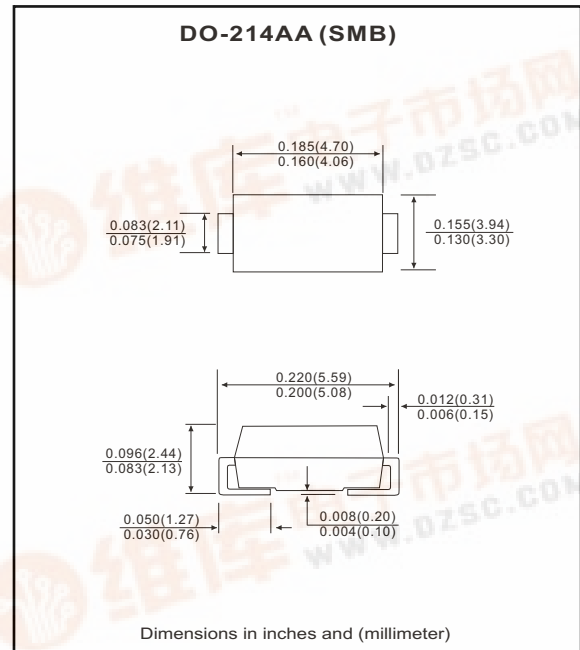


Features

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

Mechanical data

- Case: JEDEC DO-214AA, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.093 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CURB 201-G	CURB 202-G	CURB 203-G	CURB 204-G	CURB 205-G	CURB 206-G	CURB 207-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}	50							A
Max. average forward current	I _o	2.0							A
Max. instantaneous forward voltage at 2.0A	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 =125°C	I _R	5.0 100							μA
Max. thermal resistance (Note 1)	R _{θJL}	20							°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 mounted on P.C.B. with 8.0×8.0 mm² square (0.13mm thick) land area.

REV:A

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RATING AND CHARACTERISTIC CURVES (CURB201-G thru CURB207-G)

Fig.1 Reverse Characteristics

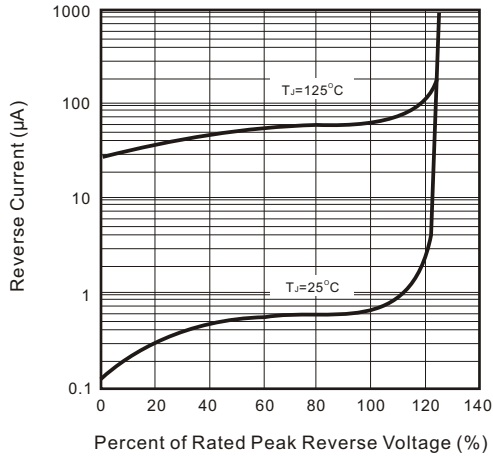


Fig.2 Forward Characteristics

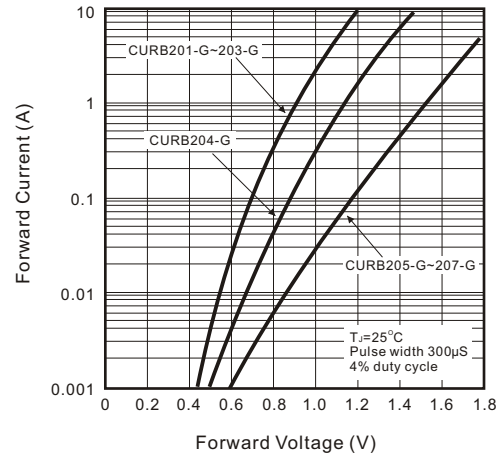


Fig.3 Junction Capacitance

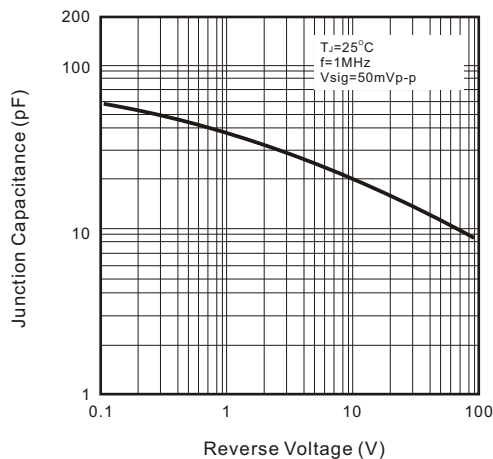


Fig.4 Non-repetitive Forward Surge Current

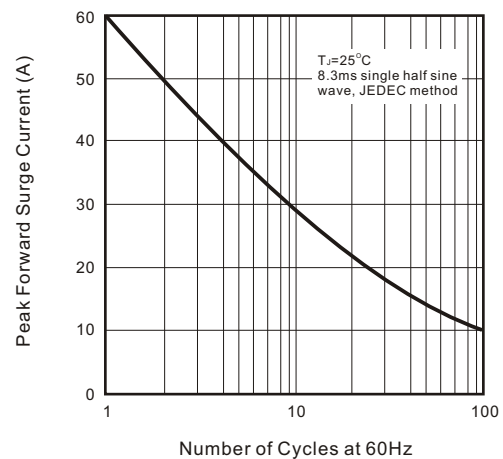


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

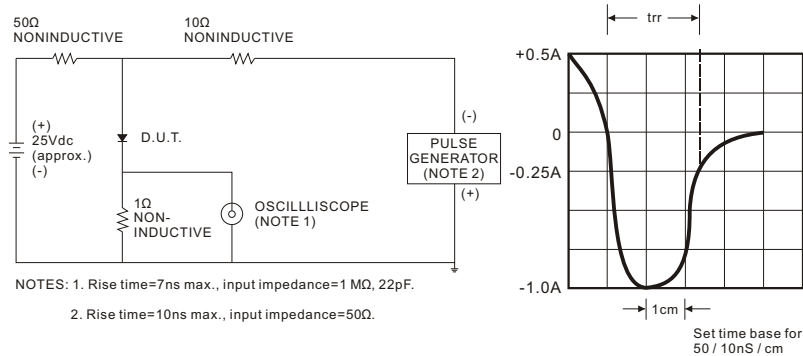


Fig.6 Current Derating Curve

