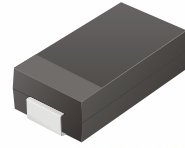


SMD Ultra Fast Recovery Rectifier



CURA151 Thru CURA157

Reverse Voltage: 50 - 1000 Volts
Forward Current: 1.5 Amp

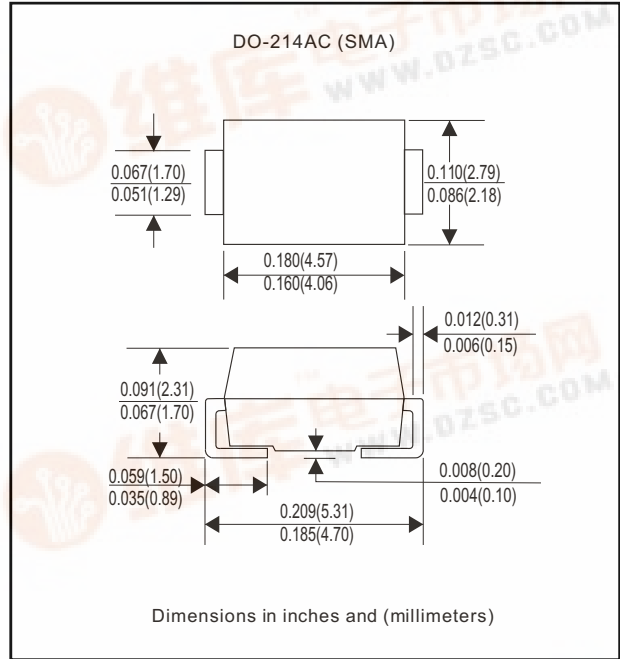


Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Fast recovery time: 50 - 75 nS
- 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
- Mounting position: Any
- Approx. Weight: 0.063 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CURA 151	CURA 152	CURA 153	CURA 154	CURA 155	CURA 156	CURA 157	Unit
Max. Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load (JEDEC method)	IFSM	50							A
Max. Average Forward Current	Io	1.5							A
Max. Instantaneous Forward Current at 1.5 A	VF	1.0			1.3		1.7		V
Reverse recovery time	Trr	50					75		nS
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	IR	5.0 100					uA		
Max. Thermal Resistance (Note 1)	RθJL	20							°C/W
Operating Junction Temperature	Tj	-55 to +150							°C
Storage Temperature	TSTG	-55 to +150							°C

Note 1: Thermal resistance from junction to lead, 8.0x8.0mm square (0.13 mm thick) land areas.



Rating and Characteristic Curves (CURA151 Thru CURA157)

Fig. 1 - Reverse Characteristics

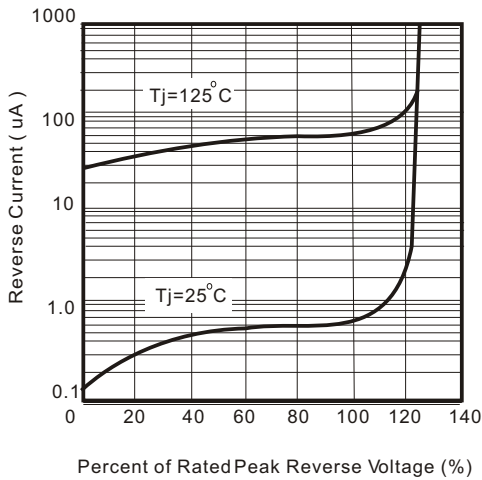


Fig.2 - Forward Characteristics

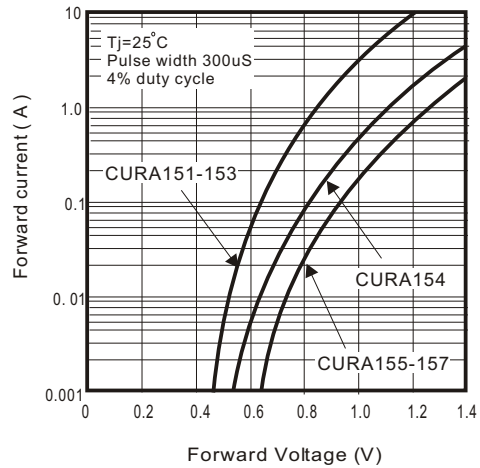


Fig. 3 - Junction Capacitance

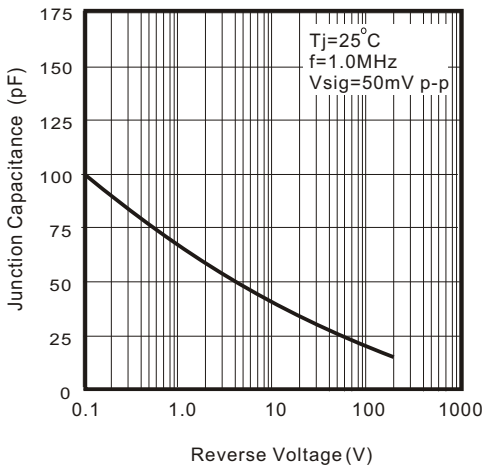


Fig. 4 - Non Repetitive Forward Surge Current

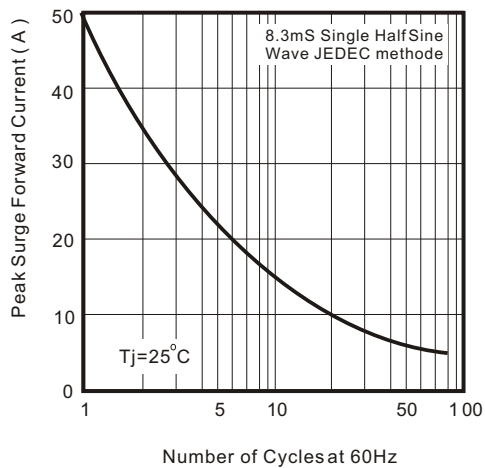


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics

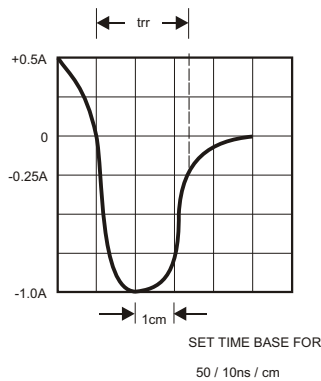
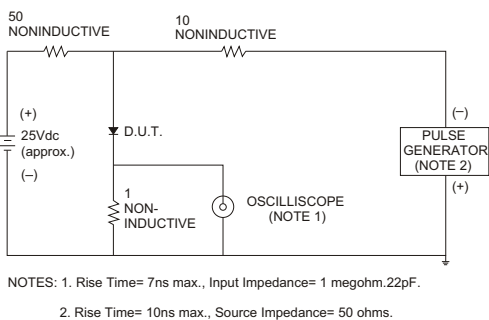


Fig. 6 - Current Derating Curve

