

SMD Schottky Barrier Rectifiers



CDBM120-G Thru CDBM1100-G

Reverse Voltage: 20 - 100 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

Exceeds environmental standard MIL-S-
19500/228

Low leakage current

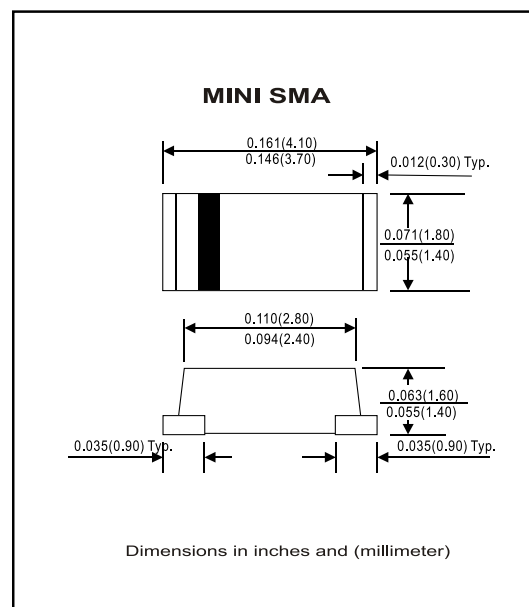
Mechanical data

Case: Mini SMA/SOD-123 molded plastic

Terminals: solderable per MIL-STD-750,
method 2026

Polarity: Color band denotes cathode
end

Approx. Weight: 0.04 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBM120-G	CDBM140-G	CDBM160-G	CDBM180-G	CDBM1100-G	Unit
Max. Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	V
Max. DC Blocking Voltage	V _{DC}	20	40	60	80	100	V
Max. RMS Voltage	V _{RMS}	14	28	42	56	70	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 Current at 1.0 A	V _F	0.50		0.70	0.85		V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	I _R	0.5					mA
		10					
Max. Thermal Resistance (Note 1)	R _{θJA}	98					°C/W
	R _{θJL}	20					
MAX. Operating Junction Temperature	T _j	125			150		°C
Storage Temperature	T _{STG}	-55 to +150					°C

Note 1: Thermal resistance from junction to ambient and junction to lead mounted on PCB with 0.2 x 0.2 inch² copper pad areas

Rev. A

Rating and Characteristic Curves (CDBM120-G Thru CDBM1100-G)

Fig. 1 - Reverse Characteristics

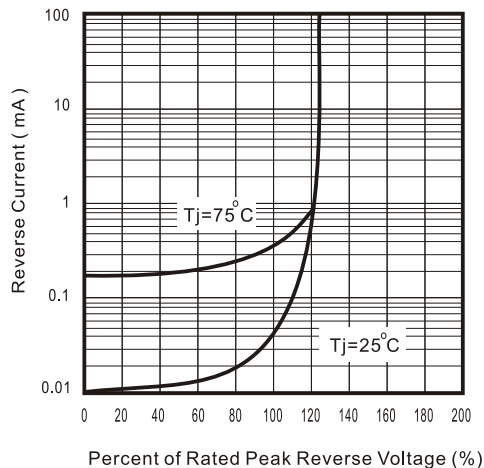


Fig.2 - Forward Characteristics

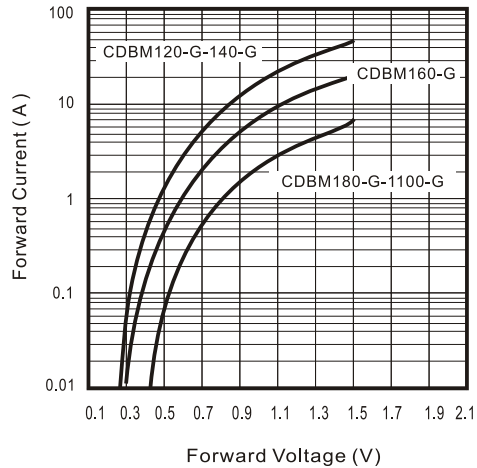


Fig. 3 - Junction Capacitance

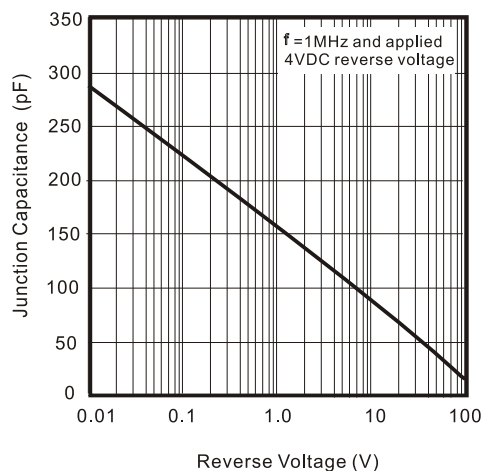


Fig. 4 - Current Derating Curve

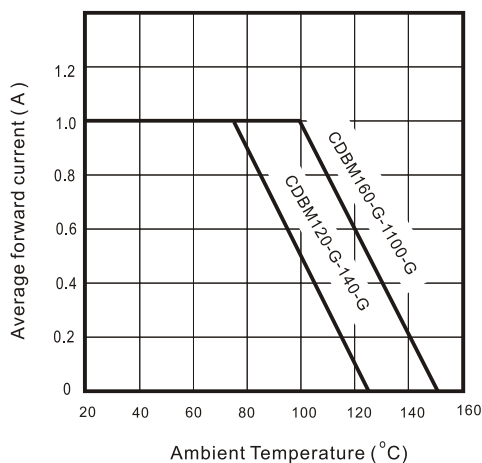


Fig. 5 - Non repetitive Forward Surge Current

