

# Low VF SMD Schottky Barrier Rectifiers



## CDBM120L-G Thru CDBM140L-G

Reverse Voltage: 20 - 40 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

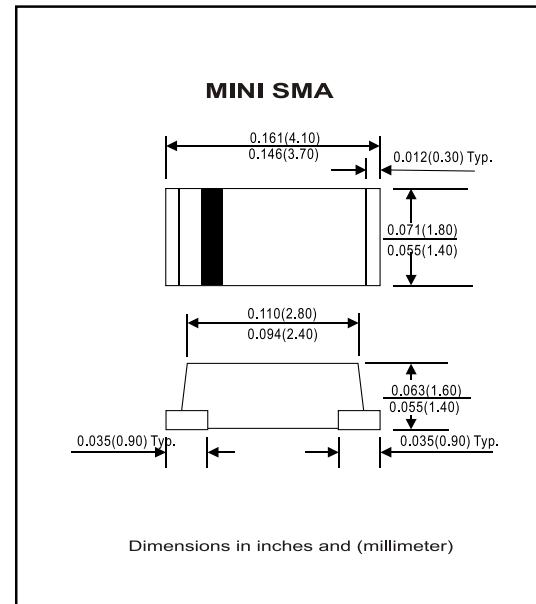
### Mechanical data

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	CDBM120L-G	CDBM140L-G	Unit
Max. Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	V
Max. DC Blocking Voltage	V <sub>DC</sub>	20	40	V
Max. RMS Voltage	V <sub>RMS</sub>	14	28	V
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load ( JEDEC method )	I <sub>FSM</sub>	30		
Max. Average Forward Current	I <sub>o</sub>	1.0		
Max. Instantaneous Forward Current at 1.0 A	V <sub>F</sub>	0.38	0.40	V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	I <sub>R</sub>	1.0 10		
Typical Thermal Resistance (Note 1)	R <sub>θ JA</sub> R <sub>θ JL</sub>	42 20		
Max. Operating Junction Temperature	T <sub>j</sub>	125		
Storage Temperature	T <sub>STG</sub>	-55 to +150		

Note 1: Thermal resistance from junction to ambient and junction to lead P.C.B. Mounted on 0.2 x 0.2 inch<sup>2</sup> copper pad areas

Rev. A

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**COACHIP**  
SMD Diodes Specialist

## Rating and Characteristic Curves (CDBM120L-G Thru CDBM140:L-G)

Fig. 1 - Reverse Characteristics

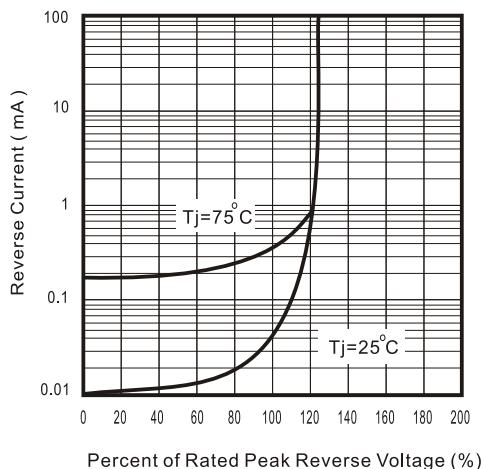


Fig.2 - Forward Characteristics

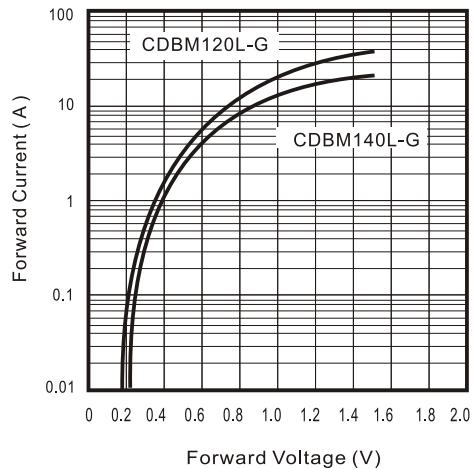


Fig. 3 - Junction Capacitance

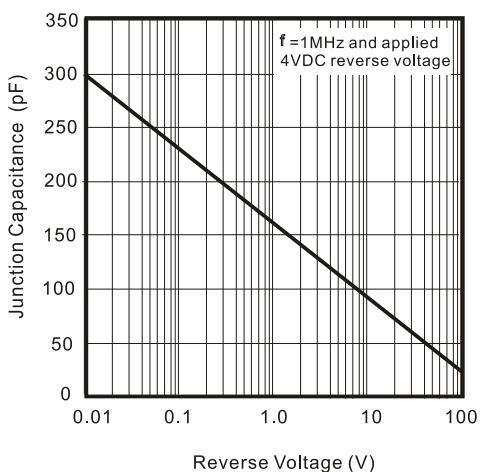


Fig. 4 - Current Derating Curve

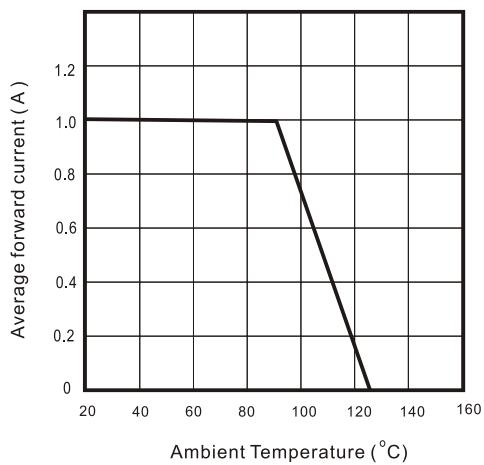
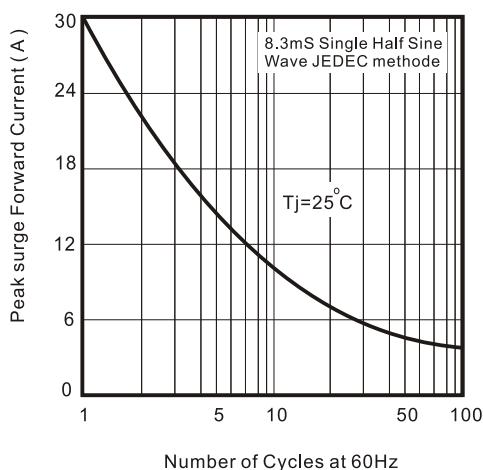


Fig. 5 - Non repetitive Forward Surge Current



Rev. A