SMD Schottky Barrier Rectifiers

COMCHIP
SMD Diodes Specialist

CDBM220-G Thru. CDBM2100-G

Reverse Voltage: 20 to 100 Volts
Forward Current: 2.0 Amp
RoHS Device

Features

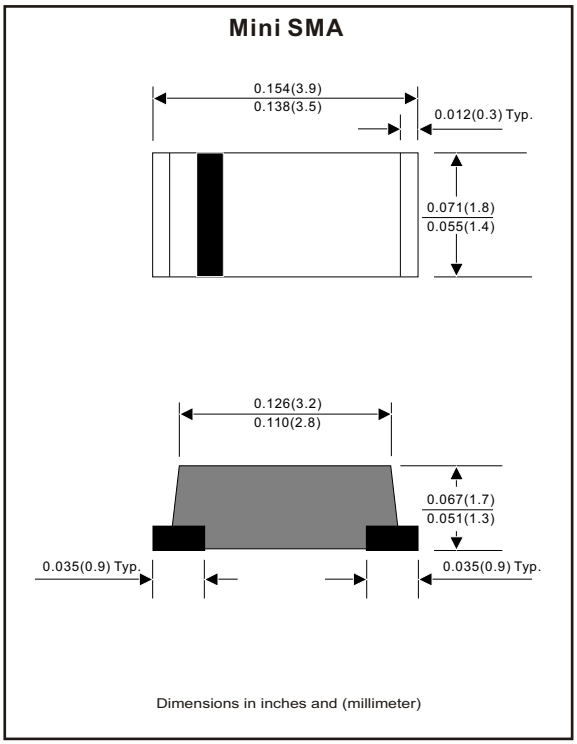
-Ideal for surface mount applications.

-Easy pick and place.

-Plastic package has Underwriters Lab. flammability classification 94V-0.

-Exceeds environmental standard MIL-S-19500/228.

-Low leakage current.



Mechanical data

-Case: Molded plastic, JEDEC SOD-123/Mini SMA.

-Terminals: Solderable per MIL-STD-750, method 2026.

-Polarity: Indicated by cathode band.

-Weight: 0.04 grams approx.

Maximum Ratings (at T_A=25°C unless otherwise noted)

Parameter	Symbol	CDBM 220-G	CDBM 240-G	CDBM 260-G	CDBM 280-G	CDBM 2100-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
Max. averaged forward current	I_O	2.0					A
Maximum Instantaneous forward voltage at I_F=1.0A	V_F	0.50		0.70	0.85		V
Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50					A
Reverse current at rated @T_A=25°C DC blocking voltage @T_A=125°C	I_R	0.5 10					mA
Max. thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	85 20					°C/W
Operating junction temperature	T_J	125			150		°C
Storage temperature range	T_{STG}	-55 to +150					°C

Note 1: Thermal resistance from junction ambient and junction to lead P.C.B. mounted on 0.2×0.2 inch² copper pad area.

Rating and Characteristic Curves (CDBM220-G Thru. CDBM2100-G)

Fig.1 Reverse Characteristics

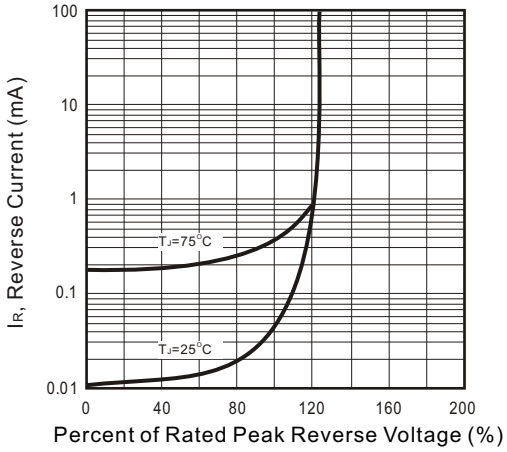


Fig.2 Forward Characteristics

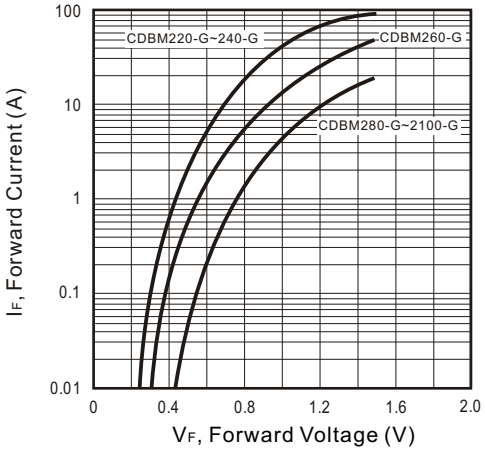


Fig.3 Junction Capacitance

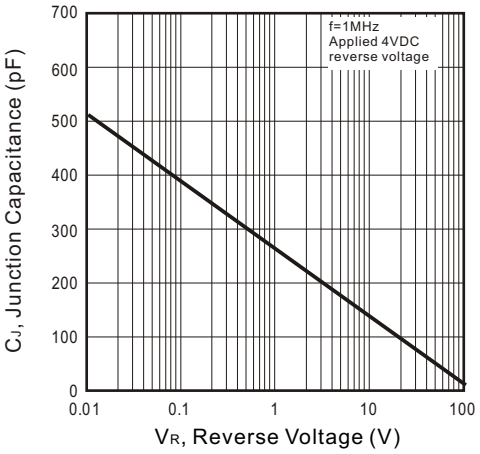


Fig.4 Current Derating Curve

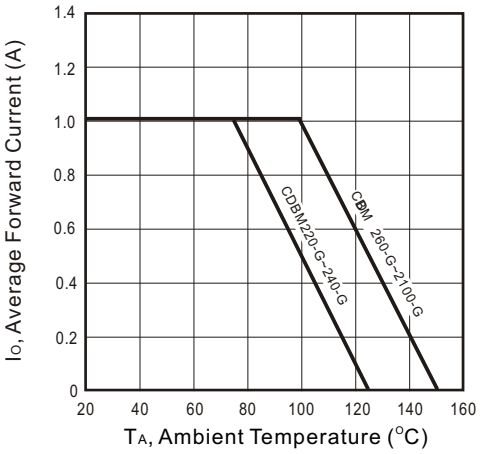


Fig.5 Non-repetitive Forward Surge Current