

## New Product Announcement CDBMH320-HF Thru. CDBMH3100-HF

## **SMD Schottky Barrier Rectifiers**

Package: SOD-123T / Mini SMA (Molded Plastic)

Reverse Voltage: 20 to 100 Volts

**Forward Current: 3.0 Amps** 

**RoHS Device** 

Halogen Free

**Lead Free** 

Excellent power dissipation offers better reverse leakage current and thermal resistance

Low profile surface mounted application in order to optimize board space

Low power loss, high efficiency

High current capability, low forward voltage drop.

High surge capability

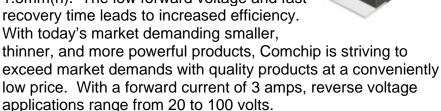
Guarding for over voltage protection

Ultra high-speed switching

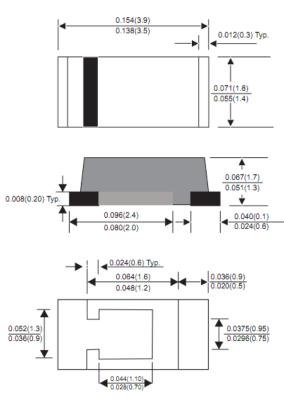
Silicon epitaxial planar chip, metal silicon junction

Lead-free parts meet environmental standards of MIL-STD-19500/22

Comchip's CDBMH Schottky barrier rectifier series utilizes the new low profile flat chip SOD-123T (Mini SMA) package. The SOD-123T measures: 1.6mm(w) x 3.7mm(l) x 1.5mm(h). The low forward voltage and fast recovery time leads to increased efficiency. With today's market demanding smaller,



#### **SOD-123T**



Dimensions in inches and (millimeter)

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

Polarity: Indicated by cathode band.

Weight: 0.018 grams approx.



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Parameter		Symbol	CDBMH 320-HF	CDBMH 330-HF	CDBMH 340-HF	CDBMH 350-HF	CDBMH 360-HF	CDBMH 380-HF	CDBMH 3100-HF	Unit
Repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	V
Continuous reverse voltage		VR	20	30	40	50	60	80	100	V
RMS voltage		VRMS	14	21	28	35	42	56	70	V
Max. Forward rectified current		lo	3.0							Α
Maximum forward voltage at I⊧=3.0A		VF	0.50			0.70		0.85		V
Max. Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	80							А
Max.Reverse current	VR=VRRM TJ=25°C	IR	0.2							mA
	VR=VRRM TJ=100°C	lR	20							
Typ. Thermal resistance		Rejc	30							°C/W
Typ. Diode Junction capacitance (Note 1)		Сл	250							РF
Operating temperature		TJ	-55 to +125 -55 to +150					°C		
Storage temperature range		Тѕтс	-65 to +175							°C

Note: 1. F=1MHz and applied 4V DC reverse voltage

