

#### CDBMT120-HF Thru. CDBMT1150-HF

# Low Profile SMD Schottky Barrier Rectifiers

Package: SOD-123H / MINI SMA

(Molded Plastic)

Reverse Voltage: 20 to 150 Volts

**Forward Current: 1.0 Amp** 

**RoHS Device** 

Halogen Free

Excellent power dissipation offers better reverse leakage current and thermal resistance

Low profile package is 40% thinner than standard SOD-123 package

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.

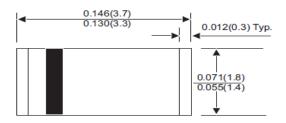
Lead-free part meets environmental standards of MIL-STD-19500/22

Comchip's CDBMT Schottky barrier rectifier series utilizes the low profile flat chip SOD-123H (MINI SMA) package. The SOD-123H measures just: 1.6mm(w) x 3.5mm(l) x 0.8mm(h). The slim package design makes the CDBMT series ideal for components of DC power supplies and high-voltage direct



current power transmission systems. With today's market demanding smaller and thinner products, Comchip is striving to exceed market demands with quality products at a conveniently low price. With a forward current of 1 amp, reverse voltage applications range from 20 to 150 volts.

#### **SOD-123H**





Dimensions in inches and (millimeter)

**Epoxy: UL94-V0 rated flame retardant** 

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band

**Mounting Position: Any** 

Weight: 0.011 grams



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# New Product Announcement

## CDBMT120-HF Thru. CDBMT1150-HF

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Parameter		Symbol	CDBMT 120-HF	CDBMT 130-HF	CDBMT 140-HF	CDBMT 150-HF	CDBMT 160-HF	CDBMT 180-HF	CDBMT 1100-HF	CDBMT 1150-HF	Unit
Repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	150	V
Continuous reverse voltage		VR	20	30	40	50	60	80	100	150	V
RMS voltage		VRMS	14	21	28	35	42	56	70	105	V
Forward rectified current		lo	1.0								Α
Maximum forward voltage @ I⊧=1.0A		VF	0.50			0.	70 0.4		85	0.92	٧
Max. Forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	25							А	
Max.Reverse current	VR=VRRM TJ=25°C	l <sub>R</sub>	0.5								mA
	VR=VRRM TJ=100°C	IK.	10								
Typ. Thermal resistance (Junction to ambient)		Reja	98								°C/W
Typ. Diode Junction capacitance (Note 1)		CJ	120								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

