

# **New Product Announcement**

### CDBMT220-HF Thru. CDBMT2100-HF

# Low Profile SMD Schottky Barrier Rectifiers

Package: SOD-123H / MINI SMA

(Molded Plastic)

Reverse Voltage: 20 to 100 Volts

**Forward Current: 2.0 Amps** 

**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

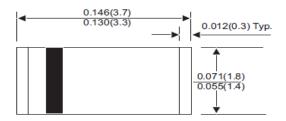
Silicon epitaxial planar chip, metal silicon junction.

Lead-free part meets environmental standards of MIL-STD-19500/228 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 2 amps, reverse voltage applications range from 20 to 100 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



September 2011

www.comchiptech.com



# New Product Announcement CDBMT220-HF Thru. CDBMT2100-HF

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

Parameter		Symbol	CDBMT 220-HF	CDBMT 230-HF	CDBMT 240-HF	CDBMT 250-HF	CDBMT 260-HF	CDBMT 280-HF	CDBMT 2100-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
Forward rectified current		lo	2.0							Α
Maximum forward voltage @ I=2.0A		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	50							Α
Max.Reverse current	VR=VRRM TJ=25°C	lR	0.5							mA
	VR=VRRM TJ=100°C		10							
Typ. Thermal resistance (Junction to ambient)		Reja	85							°C/W
Typ. Diode Junction capacitance (Note 1)		CJ	160							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

