### Low VF SMD Schottky Bridge Rectifiers



# CDBHM120L-HF Thru. CDBHM1100L-HF

Reverse Voltage: 20 to 100 Volts

**Forward Current: 1.0 Amp** 

RoHS Device Halogen Free

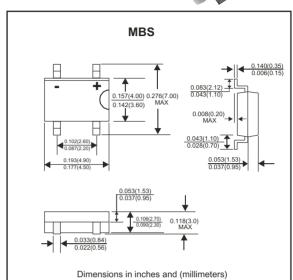


#### **Features**

- -Ideal for printed cirvuit board
- -Re liable low cost construction technique results in inexpensive product
- -High current capability,Low VF
- -High temperature soldering guaranteed: 260°C / 10 seconds
- -Pb free product

#### Mechanical data

-Case: molded plastic -Lead: solder plated -Polarity: As marked



### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbol	CDBHM 120L-HF	CDBHM 140L-HF	CDBHM 160L-HF	CDBHM 180L-HF	CDBHM 1100L-HF	Units
Maximum. Repetitive peak reverse voltage	VRRM	20	40	60	80	100	V
Maximum. DC blocking voltage	VDC	14	28	42	56	70	V
Maximum. RMS voltage	VRMS	20	40	60	80	100	V
Maximum. Instantaneous forward voltage @ 0.5A	VF	0.55 0.65			0.	0.85	
Average Forward rectified current 0.2*0.2" (5.0*5.0mm)copper pad area ,(see figure 2)	lav	1.0				А	
Peak Forward surge current,8.3ms single half sine-wave superimposed on Rated Load (JEDEC method)	Ігѕм	40				А	
Maximum. DC reverse current @TA=25°C rated DC blocking voltage per leg @TA=100°C	lR	0.5 20			mA		
Typical thermal resistance(Note 3)	Reja	85					°C/W
Typical thermal resistance(Note 3)	Rejl	20					C/ VV
Typical junction capacitance(Note 2)	CJ	250		12	25	pF	
Operating temperature range	TJ	-55 to +125		-55 to	+150	°C	
Sorage temperature range	Тѕтс	-55 to +150			°C		

Notes: 1.Pulse test: 300µS pulse width, 1% duty cycle.

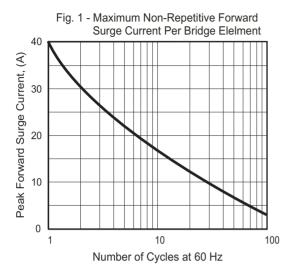
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Voltage.
- 3.Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2x0.2" (5.0x5.0mm) copper pad areas.

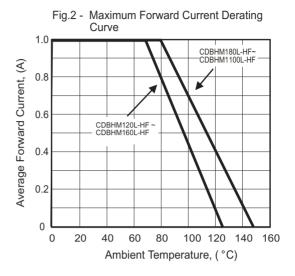
REV: A

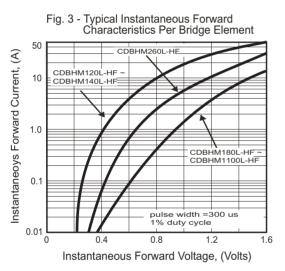
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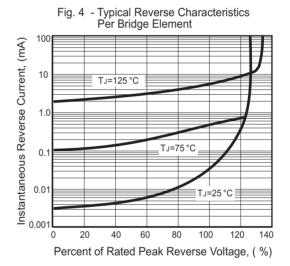


### RATING AND CHARACTERISTIC CURVES (CDBHM120L-HF Thru. CDBHM1100L-HF)



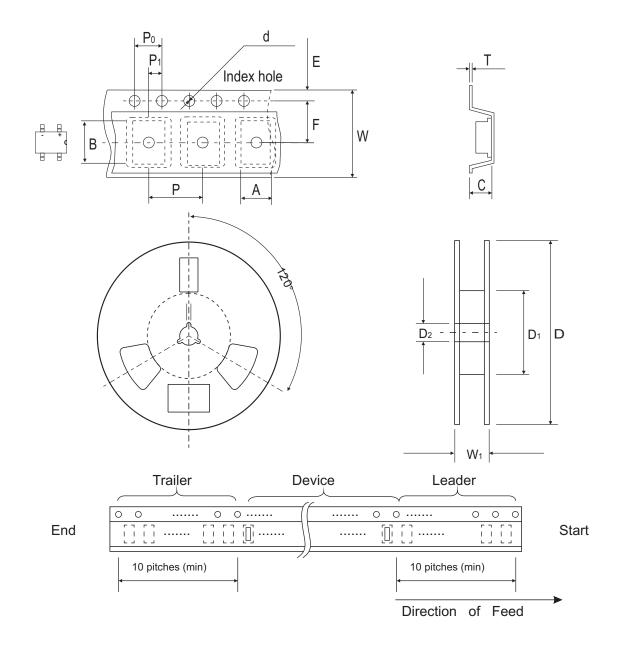








### **Reel Taping Specification**



	SYMBOL	Α	В	С	d	D	D1	D2
MBS	(mm)	5.00 ± 0.01	7.24 ± 0.10	2.95 ± 0.10	1.50 ± 0.10	330.0	50.0 MIN.	13.0 ± 0.20
	(inch)	0.197 ± 0.004	0.285 ± 0.004	0.116 ± 0.004	0.059 ± 0.004	13.00	1.969 MIN.	0.512 ± 0.008

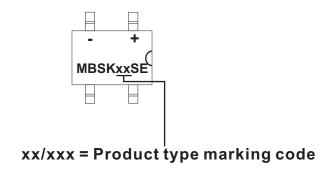
	SYMBOL	E	F	Р	P <sub>0</sub>	<b>P</b> 1	W	<b>W</b> 1
MBS	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	12.00 ± 0.30	12.0~14.40
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.012	0.472~0.657

# **Low VF SMD Schottky Bridge Rectifiers**



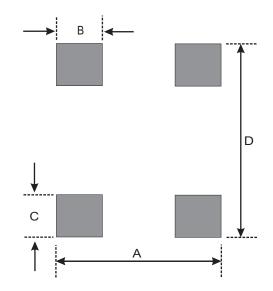
## **Marking Code**

Part Number	Marking Code
CDBHM120L-HF	MBSK12SE
CDBHM140L-HF	MBSK14SE
CDBHM160L-HF	MBSK16SE
CDBHM180L-HF	MBSK18SE
CDBHM1100L-HF	MBSK110SE



## **Suggested PAD Layout**

SIZE	MBS			
OILL	(mm)	(inch)		
Α	3.30	0.130		
В	0.90	0.035		
С	1.84	0.072		
D	6.00	0.236		



### **Standard Package**

Case Type	Qty per Reel	Reel Size	
Case Type	(Pcs)	(inch)	
MBS	2500	13	