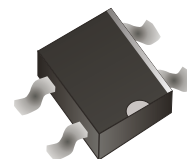


CDBHM1100L-G

Reverse Voltage: 100 V

Forward Current: 1.0 A

RoHS Device

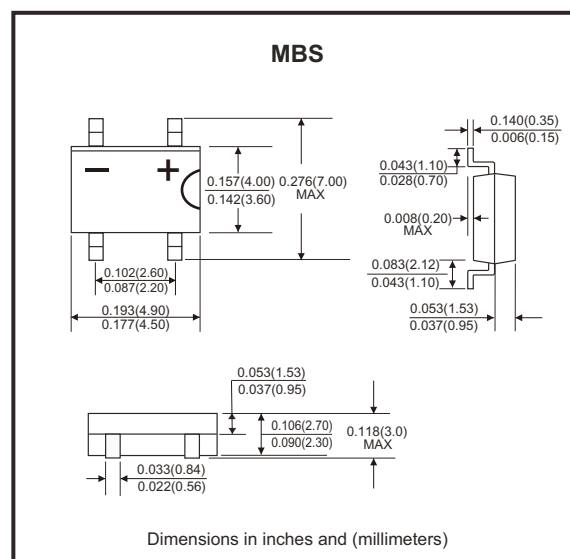


Features

- High surge forward current capability.
- Low Forward voltage drop.
- General purpose 1 phase bridge rectifier applications.
- UL recognized file # E230084 

Mechanical data

- Case: molded plastic.
- Epoxy: UL 94V-0 rated flame retardant.
- Lead: Solder plated.
- Polarity: As marked.
- Weight: 0.125 grams (approx).



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	Conditions	CDBHM1100L-G	Units
Max. Repetitive peak reverse voltage	V_{RRM}		100	V
Max. DC blocking voltage	V_{DC}		100	V
Max. RMS voltage	V_{RMS}		70	V
Average rectified output current @60Hz sine wave, R-load, $T_A=25^\circ\text{C}$	I_O	On alumina substrate	1.0	A
		On glass-epoxy substrate	0.8	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}		40	A
Max. Peak forward voltage	V_{FM}	$I_{FM}=0.5\text{A}$	0.85	V
Max. Peak reverse current	I_{RRM}	$V_{RM}=V_{RRM}$	0.5	mA
Max. Current squared time	I^2t	$1\text{ms} \leq t \leq 8.3\text{ms}$, $T_A=25^\circ\text{C}$	6.6	A^2S
Max. Thermal resistance	$R_{\theta JA}^{(1)}$	On alumina substrate	76	$^\circ\text{C/W}$
		On glass-epoxy substrate	134	
	$R_{\theta JL}$	Between junction and lead	20	
Operating temperature range	T_J		-55 to +150	$^\circ\text{C}$
Storage temperature range	T_{STG}		-55 to +150	$^\circ\text{C}$

Notes: 1. Between junction and ambient

Rating and Characteristics Curves (CDBHM1100L-G)

Fig.1 - Forward Current Derating Curve

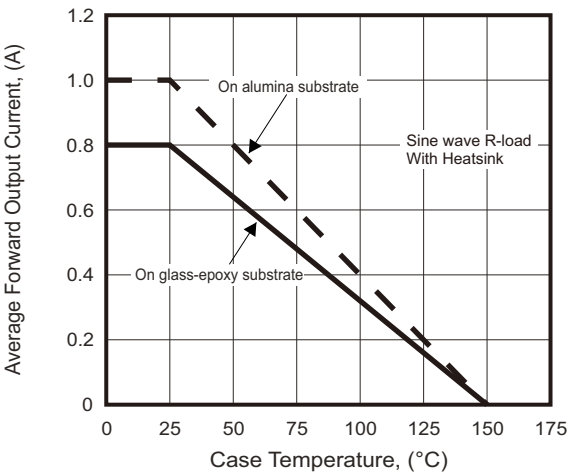


Fig.2 - Typical Forward Characteristics

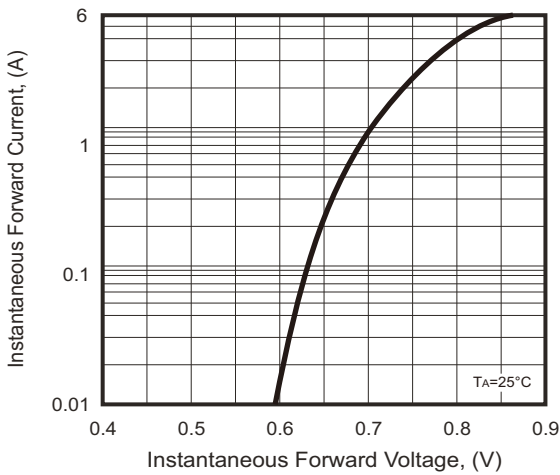


Fig.3 - Maximum Non-Repetitive Surge Current

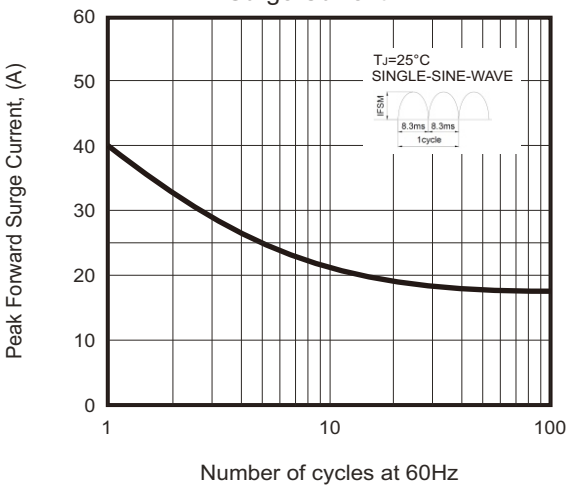
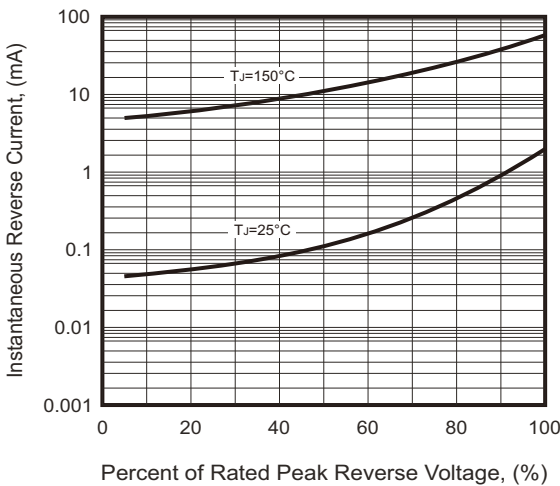
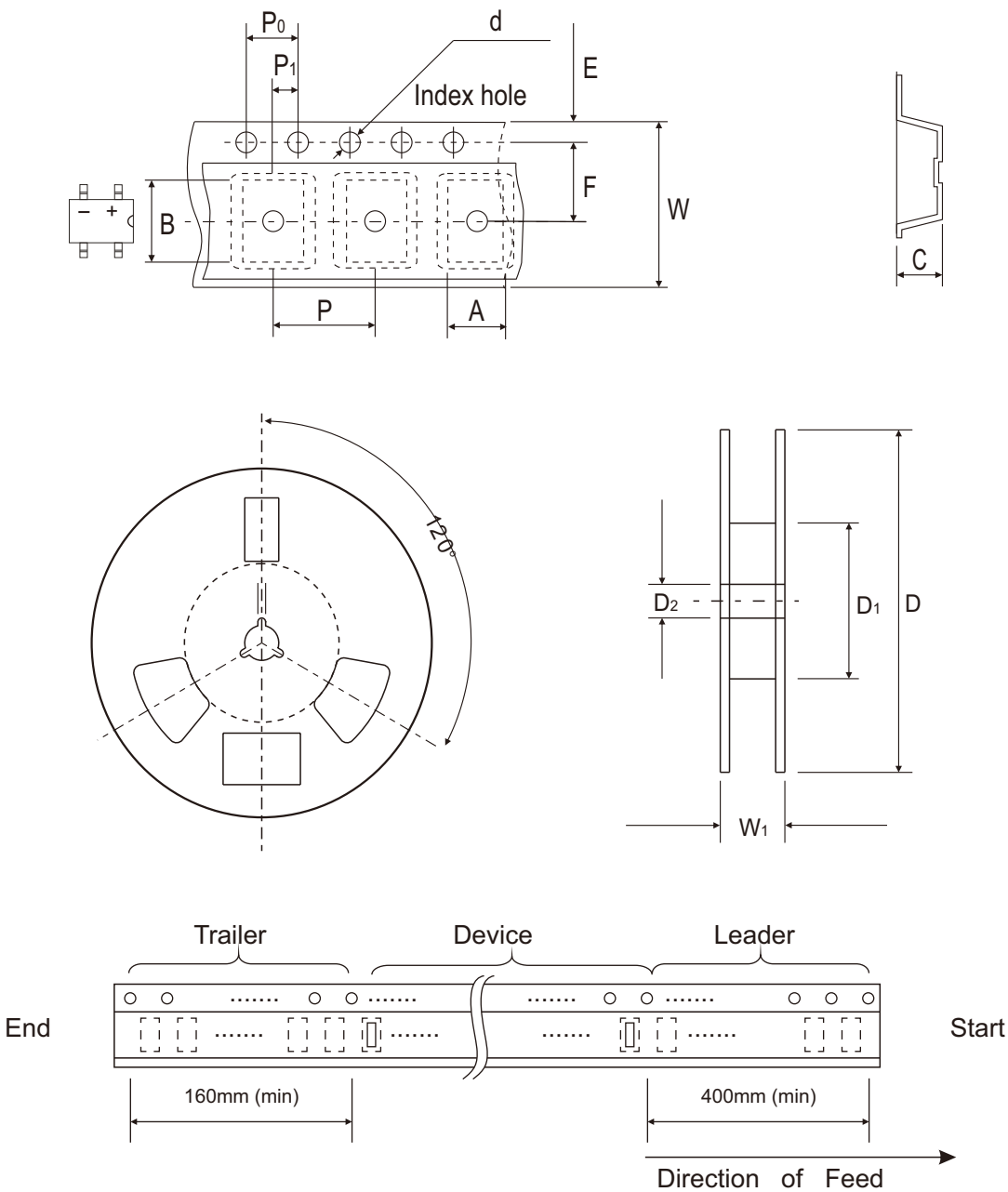


Fig.4 - Typical Reverse Characteristics



Reel Taping Specification

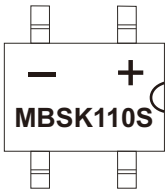


MBS	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	5.00 ± 0.10	7.24 ± 0.10	2.95 ± 0.10	1.55 ± 0.05	330.0 ± 2.00	50.0 Min.	13.0 ± 0.50
	(inch)	0.197 ± 0.004	0.285 ± 0.004	0.116 ± 0.004	0.061 ± 0.002	13.00 ± 0.079	1.969 Min.	0.512 ± 0.020

MBS	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	12.00 ± 0.30	18.70 Max.
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.472 ± 0.012	0.736 Max.

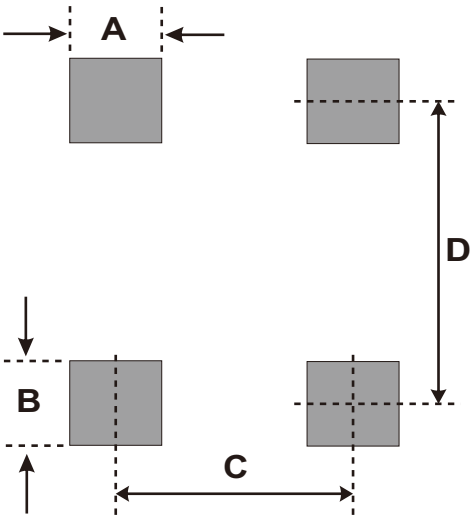
Marking Code

Part Number	Marking Code
CDBHM1100L-G	MBSK110S



Suggested P.C.B. PAD Layout

SIZE	MBS	
	(mm)	(inch)
A	1.20	0.047
B	1.84	0.072
C	2.40	0.094
D	6.00	0.236



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
MBS	2,500	13