

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

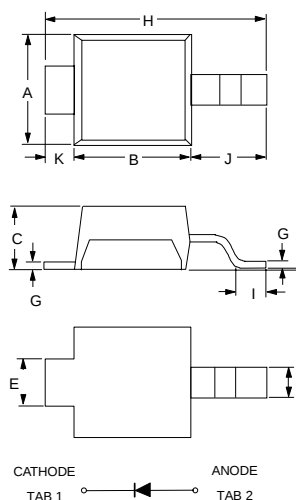
REVERSE VOLTAGE - **20** Volts
FORWARD CURRENT - **1.0** Ampere

FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Ultra low VF provides higher efficiency and extends battery life
- Plastic material has UL flammability classification 94V-0
- For use in portable and battery powered product
- Typical applications are ac/ac and dc/dc converters, reverse battery protection, and "Oring" of multiple supply voltage

MECHANICAL DATA

- Case : JEDEC DO-216AA Molded plastic
- Polarity : Cathode designated by TAB 1
- Approx Weight : 0.016grams
- Mounting position : Any

DO-216AA


DO-216AA		
DIM.	MIN.	MAX.
A	1.75	2.05
B	1.80	2.20
C	0.95	1.25
D	0.42	0.68
E	0.70	1.00
F	-0.05	+0.10
G	0.10	0.25
H	3.65	3.95
I	0.40	0.70
J	1.10	1.50
K	0.20	0.80

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

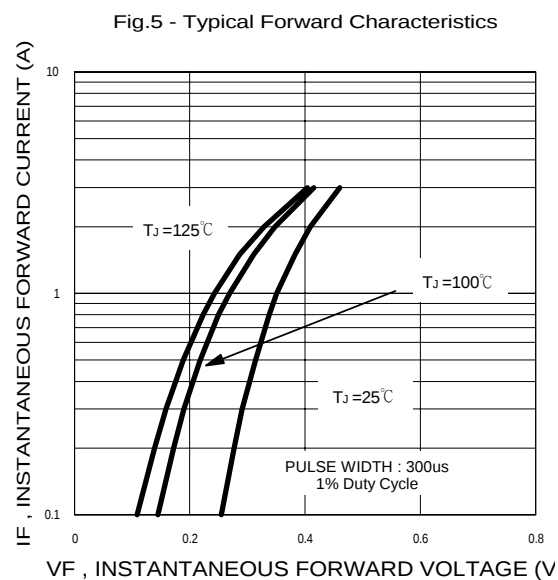
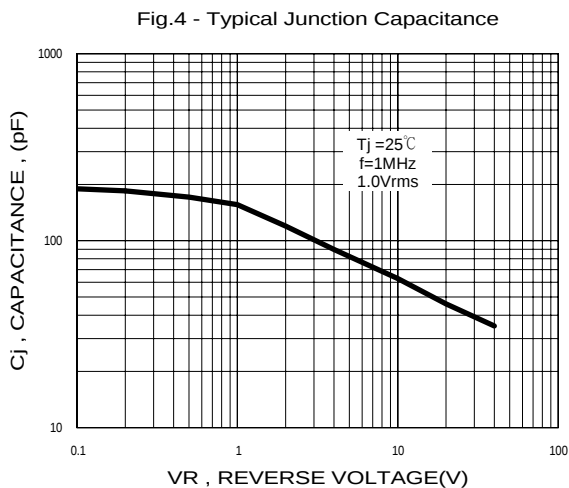
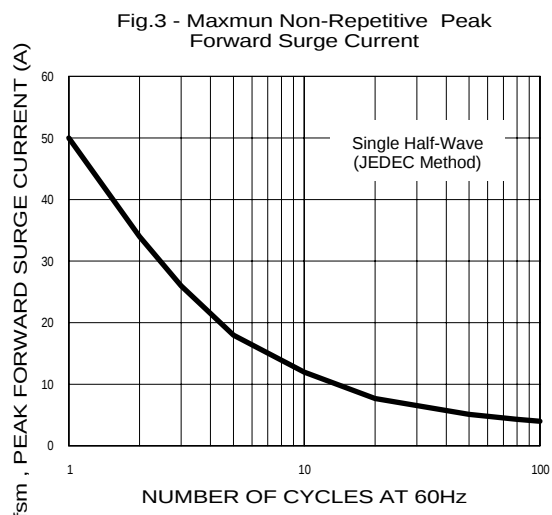
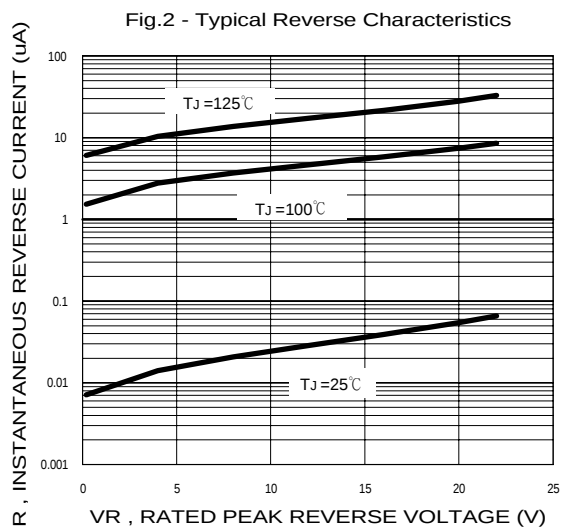
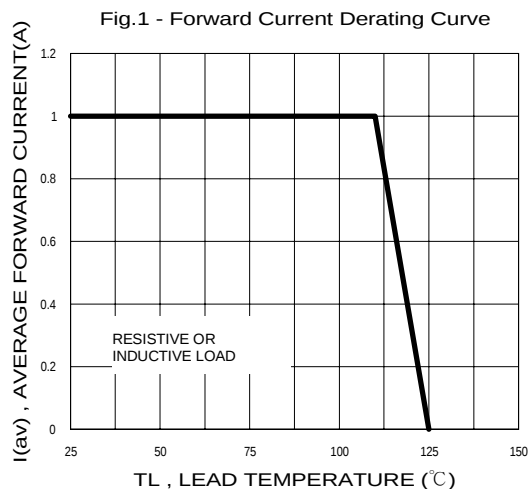
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	MB120L		Units
Maximum recurrent peak reverse voltage	V _{rrm}	20		V
Maximum RMS voltage	V _{rms}	14		V
Maximum DC blocking voltage	V _{DC}	20		V
Maximum average forward rectified current @T _L =110°C	I _(AV)	1.0		A
Peak forward surge current 8.3 ms single half-sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50		A
Maximum instantaneous forward voltage (Note 1) (@ IF=0.1A) (@ IF=1.0A) (@ IF=3.0A)	V _F	@ T _J = 25°C	@ T _J = 85°C	V
		0.34	0.26	
		0.45	0.415	
		0.65	0.67	
Maximum instantaneous reverse current (@ VR=20V) (@ VR=10V)	I _R	@ T _J = 25°C	@ T _J = 85°C	mA
		0.4 0.1	25 18	
Thermal resistance - Junction to Lead (Anode)	R _{tjl}	35		°C/W
Thermal resistance - Junction to Tab (Cathode)	R _{ttab}	20		
Thermal resistance - Junction to Ambient	R _{tja}	250		
Operating Temperature Range	T _J	-55 to +125		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C

NOTE: 1. Pulse Test: Pulse Width = 300us , Duty Cycle = 2%

REV. 0, 26-Dec-2001, KSHP04



FOOTPRINTS FOR SOLDERING

