MBR120LSF

FEATURES

- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications

MECHANICAL DATA

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Marking :L2L

SOD-123

Dimensions in millimeters and (inches)
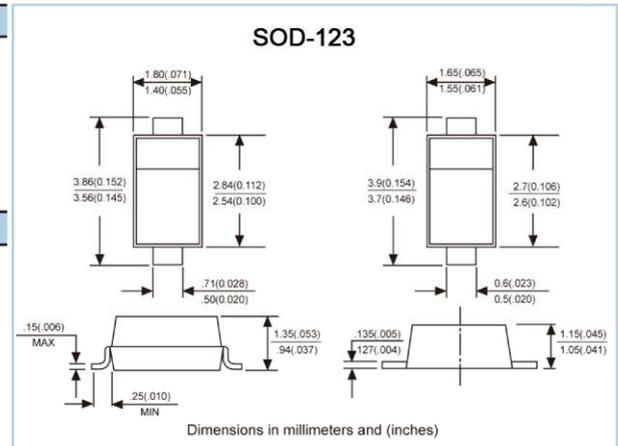
Maximum ratings and electrical characteristics, Single diode @T_A=25℃

PARAMETER	SYMBOLS	FIGURE	UNITS
Peak repetitive peak reverse voltage	V_{RRM}		
Working peak reverse voltage	V_{RWM}	20	V
DC Blocking voltage	V_R		
RMS Reverse voltage	$V_{R(RMS)}$	28	V
Average rectified output current	Io	1	A
Peak forward surge current @=8.3ms	I_{FSM}	25	A
Repetitive peak forward current	I_{FRM}	625	mA
Power dissipation	Pd	250	mW
Thermal resistance junction to ambient	$R_{\Theta JA}$	500	K/W
Storage temperature	T_{STG}	-65 to +150	℃
Non-Repetitive peak reverse voltage	V_{RM}	20	V

Electrical ratings @T_A=25C

PARAMETER	SYMBOLS	Min.	Max.	Unit	Test conditions
Reverse breakdown voltage	$V_{(BR)}$	20		V	I_R=1mA
Reverse voltage leakage current	I_R		1	mA	V_R=20V
Forward voltage	V_F		0.6	V	I_F=1A
Diode capacitance	C_D		120	pF	V_R=4V,f=1.0MHz

FIG. 1- FORWARD CURRENT DERATING CURVE

AVERAGE FORWARD CURRENT(A)

Resistive or inductive load0.375"(9.5mm) lead length

CASE TEMPERATURE(℃)
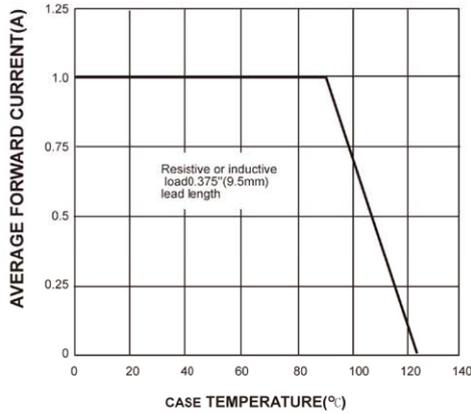
FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

PEAK FORWARD SURGE CURRENT(A)

NUMBER OF CYCLES AT 60Hz
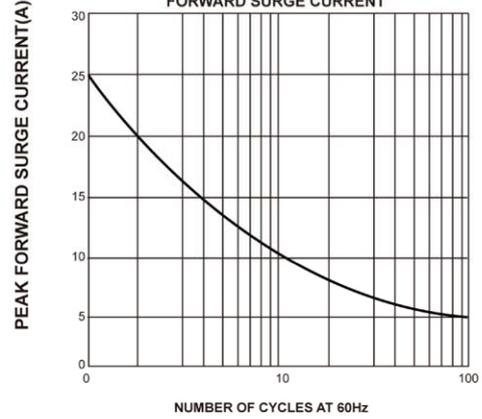
FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT(A)

T_A=125℃ T_A=25℃

Pulse width=300us
1% duty cycle

INSTANTANEOUS FORWARD VOLTAGE(V)
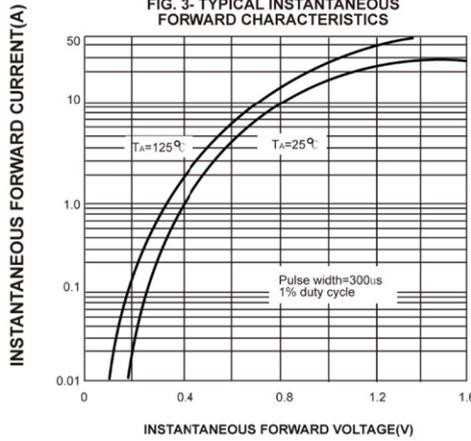
FIG. 4- TYPICAL REVERSE CHARACTERISTICS

INSTANTANEOUS REVERSE CURRENT (mA)

T_J=125℃

T_J=75℃

T_J=25℃

PERCENT OF RATED PEAK PEVERSE VOLTAGE (%)
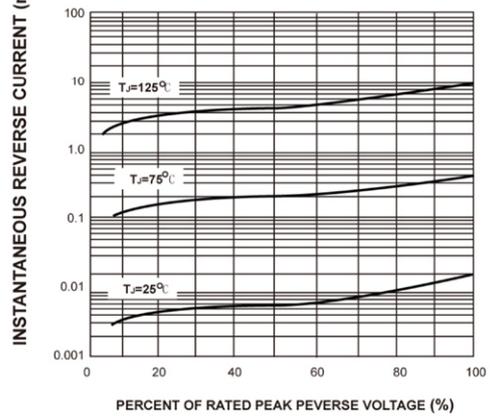
FIG. 5- TYPICAL JUNCTION CAPACITANCE

JUNCTION CAPACITANCE (pF)

REVERSE VOLTAGE (V)
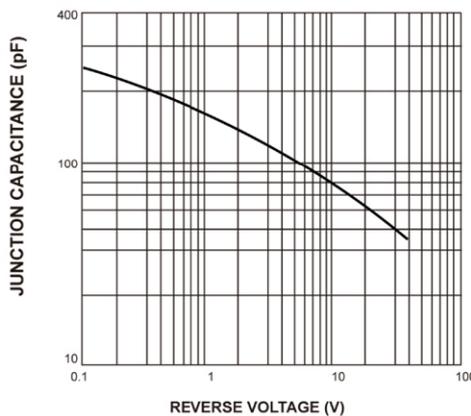
FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

TRANSIENT THERMAL IMPEDANCE (℃/W)

t--PULSE DURATION (sec.)

REV.07

www.shike.tw
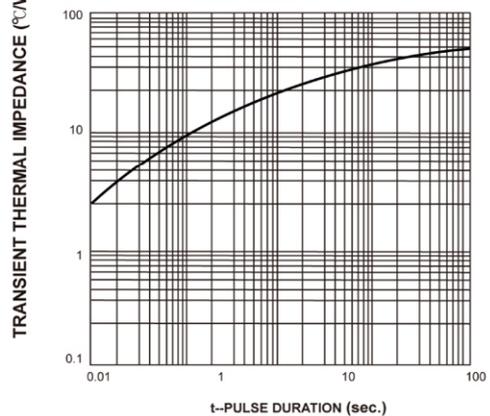
X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers *category:*

Click to view products by Shikues *manufacturer:*

Other Similar products are found below :

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SBAT54CWT1G SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SK32A-TP SK33B-TP SK35A-TP SK38B-LTP SK38B-TP NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L-1246 10BQ060-M3/5BT 10BQ040-M3/5BT