

Features

- Halogen Free. "Green" Device (Note 1)
- · High Current Capability
- Low Profile Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value			
i didilietei	Cymbol	LMB24S	LMB26S	LMB210S	- Unit
Peak Repetitive Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V _{RWM}	40 60 100		100	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	V_{RMS}	28	42	70	V
Average Rectified Forward Current	I _{F(AV)}	2			А
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	50			А
Current Squared Time @1ms≤t≤8.3ms	I ² t	10			A ² s

Marking code

Part Number	Marking Code
LMB24S	LMB24S
LMB26S	LMB26S
LMB210S	LMB210S

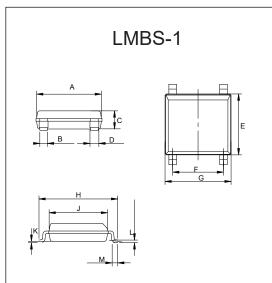
Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol			
1	Anode	∏4 1∏ - +	4 1			
4	Cathode	MCC	**			
2&3	AC	XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1			

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

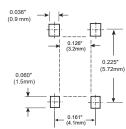
2. High temperature solder exemption applied, see EU directive annex 7a.

& Amp Gi fZJWY A ci bh GW chh_mBridge FYW¶Z]Yf 40 to 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.197	0.205	4.90	5.20	
В	0.024		0.60		
С		0.059		1.50	
D	0.024	0.032	0.60	0.80	
Е		0.189		4.80	
F	0.150	0.165	3.80	4.20	
G		0.209		5.30	
Н	0.236	0.252	6.00	6.60	
J	0.177	0.185	4.30	4.70	
K	0.0009	0.004	0.02	0.21	
L	0.006	0.012	0.15	0.30	
M	0.017	0.031	0.25	0.80	

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range	LMB24S	-55		125	°C
TJ	Operating Junction Temperature Range	LMB26S~LMB210S	-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead			25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient			62.5		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
LMB24S	V _F	I _F =1A;T _J =25°C		0.40	0.50	V
		$I_F=2A;T_J=25$ °C		0.50		
LMB26S		$I_F=1A;T_J=25$ °C		0.47	0.70	
		$I_F=2A;T_J=25$ °C		0.59		
LMB210S		$I_F=1A;T_J=25$ °C		0.71	0.85	
		I _F =2A;T _J =25°C		0.80		
Reverse Current						
LMB24S~LMB26S	I _R	at Rated V _R ;T _J =25°C			0.1	mA
		at Rated V _R ;T _J =125°C			20	
LMB210S		at Rated V _R ;T _J =25°C			0.01	
		at Rated V _R ;T _J =125°C			5	
Junction Capacitance						
LMB24S	CJ	$V_R=4V;f=1MHz;T_J=25$ °C		125		pF
LMB26S				90		-
LMB210S				60		

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Curve Characteristics

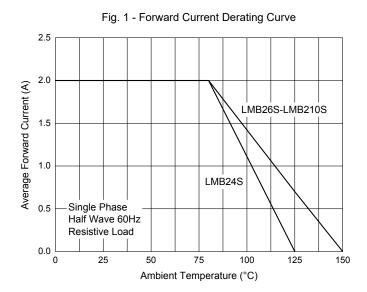
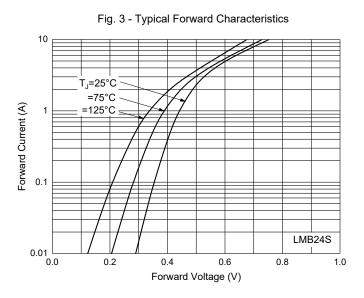


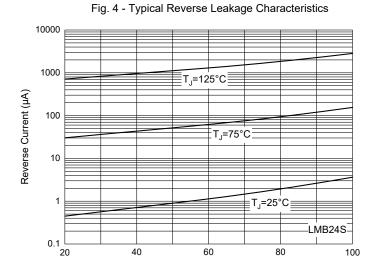
Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

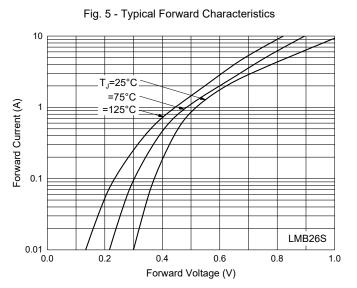
10

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

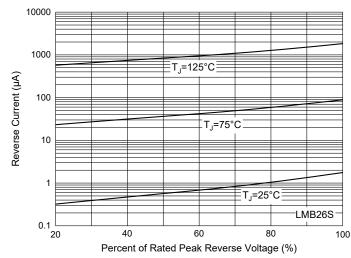








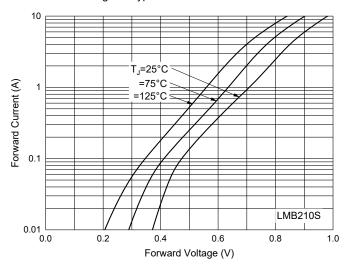
Percent of Rated Peak Reverse Voltage (%)





Curve Characteristics

Fig. 7 - Typical Forward Characteristics



1000
T_J=125°C

100
T_J=75°C

0.1

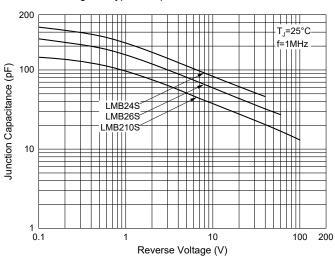
0.01

0.01

Percent of Rated Peak Reverse Voltage (%)

Fig. 8 - Typical Reverse Leakage Characteristics

Fig. 9 - Typical Capacitance Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:5Kpcs/Reel		

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