

**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)

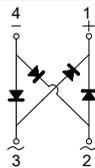
**Maximum Ratings @ 25°C (Unless Otherwise Specified)**

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

**Marking code**

Part Number	Marking Code
LMB24S	LMB24S
LMB26S	LMB26S
LMB210S	LMB210S

**Internal Structure**

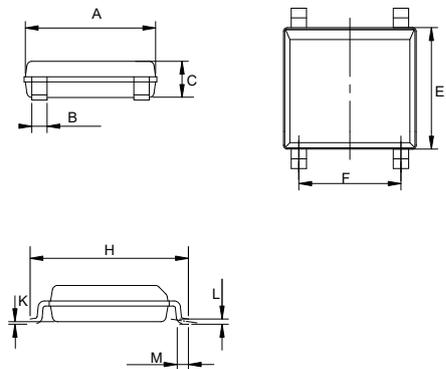
Pin	Description	Simplified Outline	Graphic Symbol
1	Anode	 XXXX: Marking Code	
4	Cathode		
2&3	AC		

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.

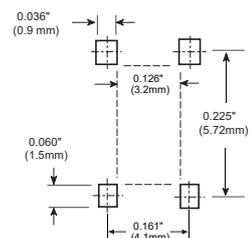
**& Amp**  
**Gi fZUW' Aci bh**  
**GW ch\_mBridge**  
**F YWJZYf**  
**40 to 100 Volts**

**LMBS-1**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.193	0.205	4.90	5.20	
B	0.024	0.031	0.60	0.80	
C	---	0.059	---	1.50	
E	0.170	0.185	4.30	4.70	
F	0.150	0.165	3.80	4.20	
H	0.236	0.260	6.00	6.60	
K	0.0008	0.008	0.02	0.21	
L	0.006	0.012	0.15	0.30	
M	0.001	0.031	0.25	0.80	

**Suggested Solder Pad Layout**



### Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$T_J$	Operating Junction Temperature Range	LMB24S	-55		125	°C
$T_J$	Operating Junction Temperature Range	LMB26S~LMB210S	-55		150	°C
$T_{stg}$	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead			25		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient			62.5		°C/W

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage						
LMB24S	$V_F$	$I_F=1A; T_J=25^\circ C$ $I_F=2A; T_J=25^\circ C$		0.40 0.50	0.50	V
LMB26S		$I_F=1A; T_J=25^\circ C$ $I_F=2A; T_J=25^\circ C$		0.47 0.59	0.70	
LMB210S		$I_F=1A; T_J=25^\circ C$ $I_F=2A; T_J=25^\circ C$		0.71 0.80	0.85	
Reverse Current						
LMB24S~LMB26S	$I_R$	at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$			0.1 20	mA
LMB210S		at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$			0.01 5	
Junction Capacitance						
LMB24S	$C_J$	$V_R=4V; f=1MHz; T_J=25^\circ C$		125		pF
LMB26S				90		
LMB210S				60		

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

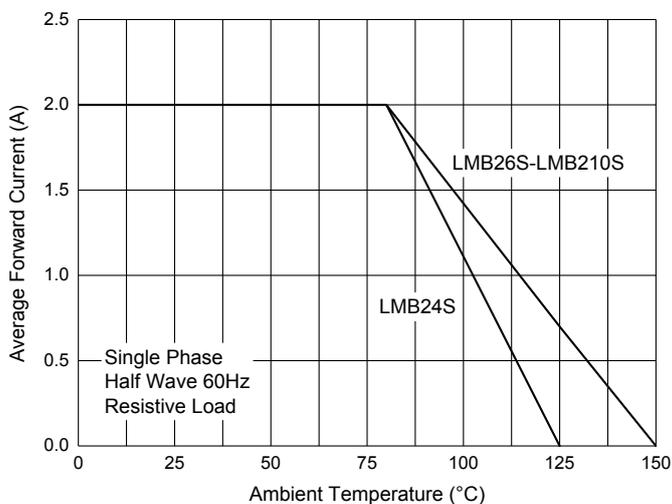


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

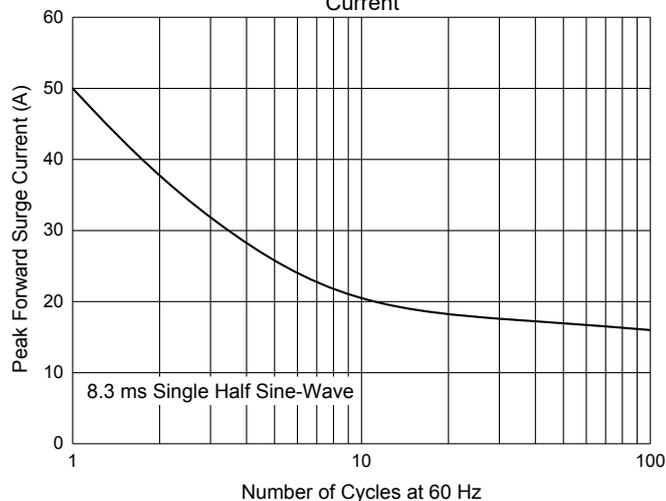


Fig. 3 - Typical Forward Characteristics

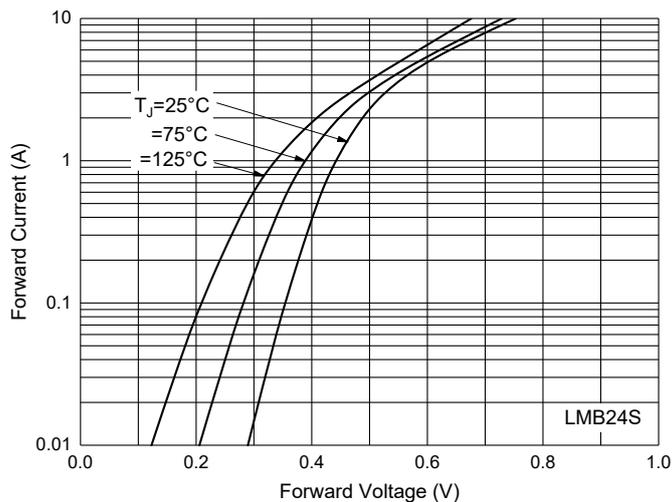


Fig. 4 - Typical Reverse Leakage Characteristics

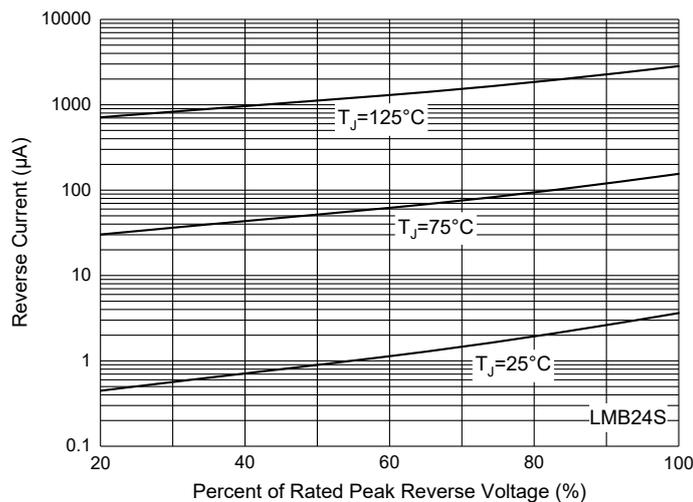


Fig. 5 - Typical Forward Characteristics

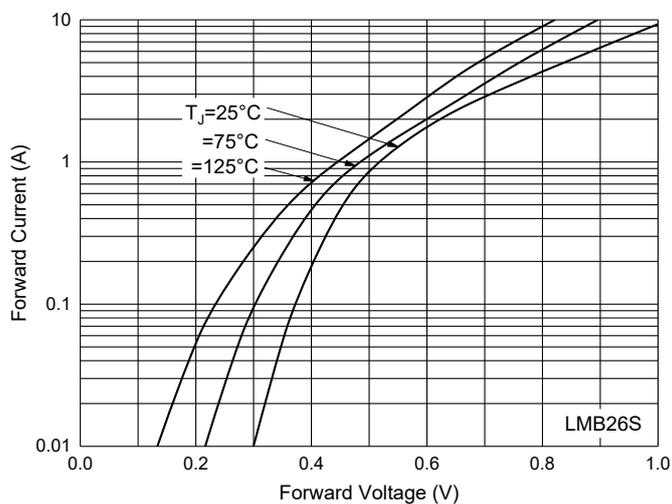
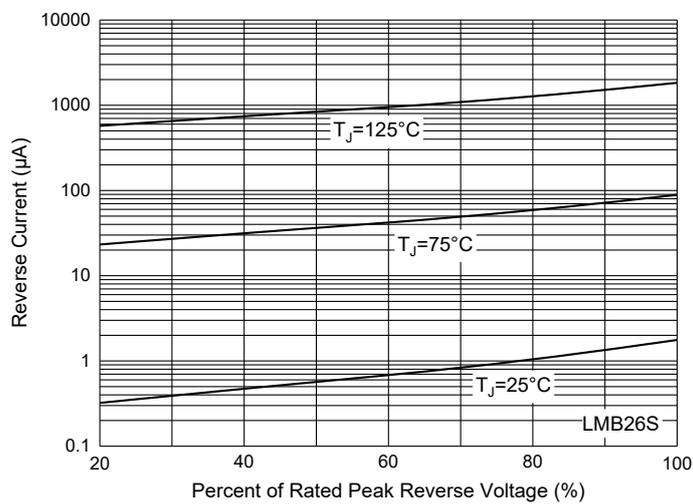


Fig. 6 - Typical Reverse Leakage Characteristics



**Curve Characteristics**

Fig. 7 - Typical Forward Characteristics

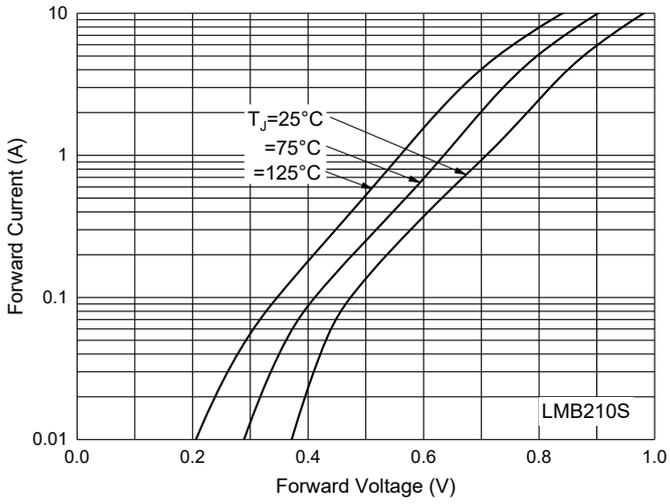


Fig. 8 - Typical Reverse Leakage Characteristics

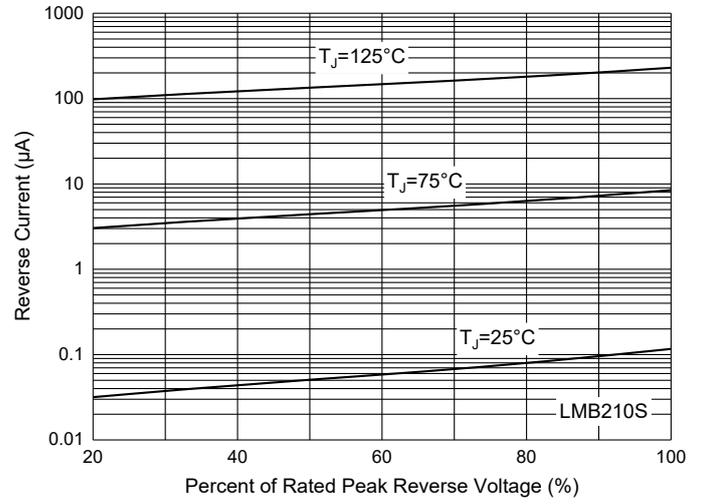
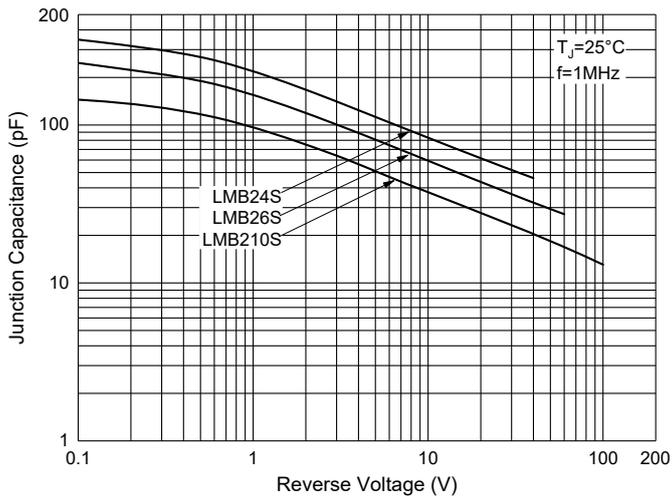


Fig. 9 - Typical Capacitance Characteristics



## Ordering Information

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

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