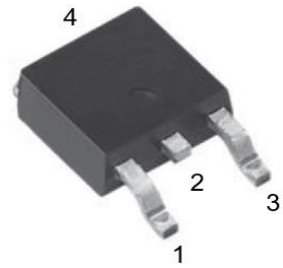


# S-LMBR20H150SD2

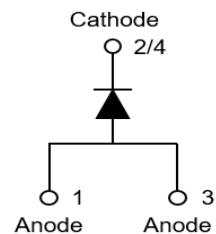
## High Performance Schottky Rectifier

### 1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for over voltage protection
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.



**DPAK (TO-252)**



### 2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LMBR20H150SD2	LMBR20H150S	2500pcs/Tape&Reel

### 3. MAXIMUM RATINGS(Tc=25 °C)

Parameter	Symbol	Limit	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	150	V
Maximum RMS Voltage	VRMS	105	V
Maximum DC Blocking Voltage	VR	150	V
Average Forward Current (Tc=100 °C, Duty Cycle=0.5)	IF(AV)	20	A
Peak Forward Surge Current 10ms Single Half Sine Wave Superimposed On Rated Load	IFSM	180	A
Operation Junction And Storage Temperature Range	TJ,TSTG	-55 ~ +150	°C
Thermal Resistance, Junction-to-Case	RθJC	3	°C/W
Thermal Resistance, Junction-to-Ambient	RθJA	80	°C/W

### 4. ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20A, Tj=25 °C			0.92	V
		IF=20A, Tj=125 °C			0.8	V
Reverse Leakage Current	IR	VR=150V, Tj=25 °C			0.05	mA
		VR=150V, Tj=125 °C			10	mA

**5. ELECTRICAL CHARACTERISTICS CURVES(Typical Values)**

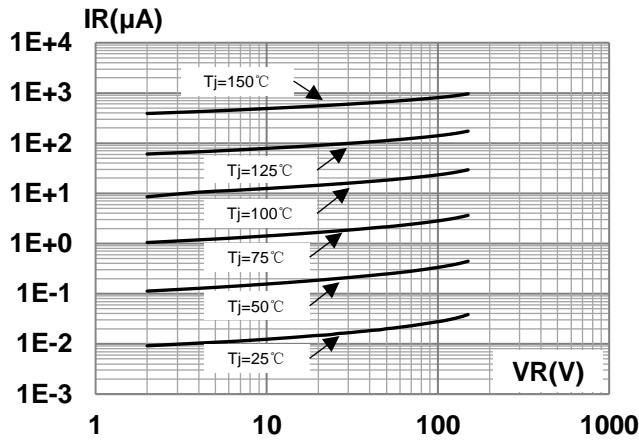


Fig1- Reverse Leakage Current Versus Reverse Voltage Applied

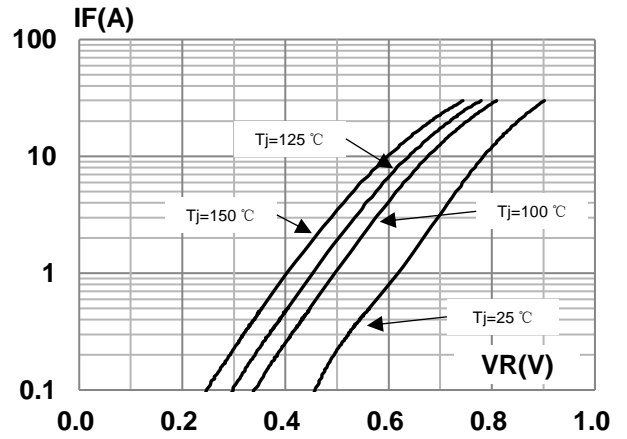


Fig2- Forward Current Versus Forward Voltage

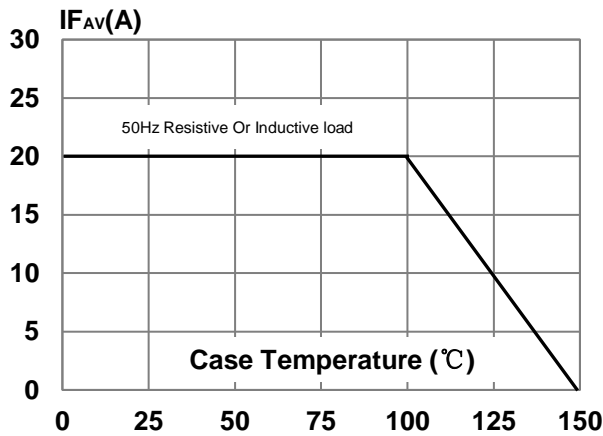


Fig3- Forward Current Derating Curve

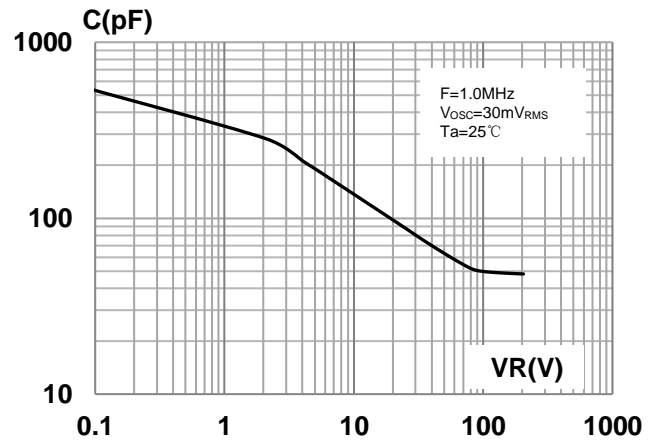
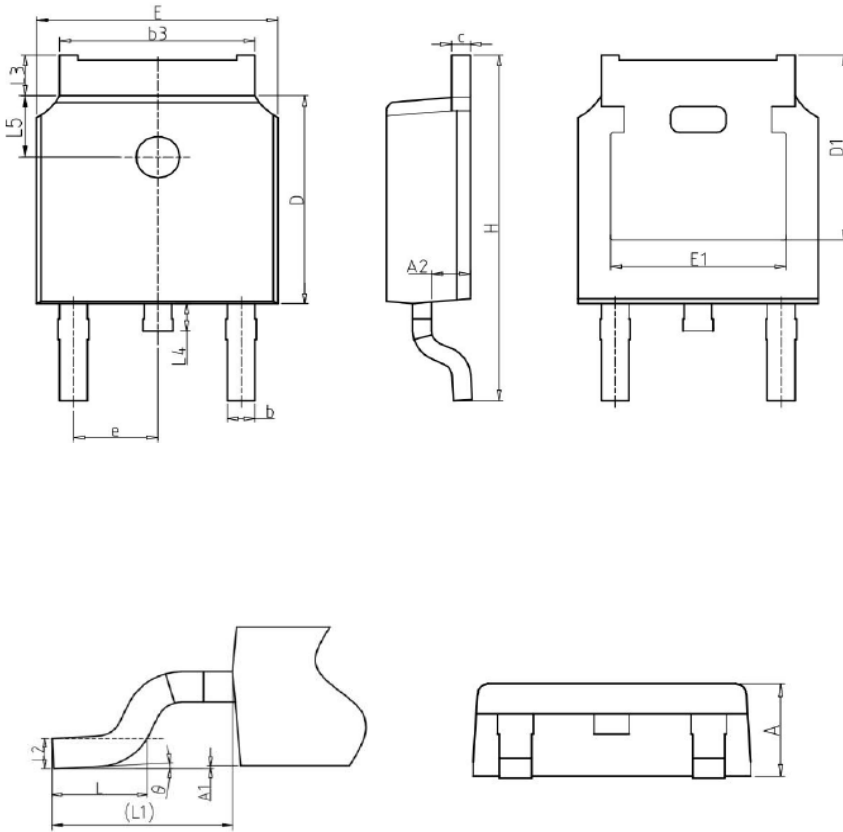


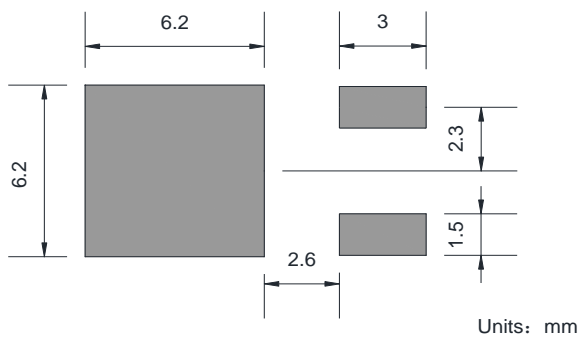
Fig4- Junction Capacitance Versus Reverse Voltage Applied

## 6. OUTLINE AND DIMENSIONS



DPAK/TO-252			
DIM	MIN	NOR	MAX
A	2.20	2.30	2.40
A1	0.00	-	0.20
A2	0.97	1.07	1.17
b	0.68	0.78	0.90
b3	5.20	5.33	5.50
c	0.43	0.53	0.63
D	5.98	6.10	6.22
D1	5.30 REF		
E	6.40	6.60	6.80
E1	4.63	-	-
e	2.286BSC		
H	9.40	10.10	10.50
L	1.38	1.50	1.75
L1	2.90REF		
L2	0.51BSC		
L3	0.88	-	1.28
L4	-	-	1.00
L5	1.65	1.80	1.95
θ	0°	-	8°
Dimensions are in mm			

## 7. SOLDERING FOOTPRINT



**DISCLAIMER**

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
- Before you use our Products for new Project, you are requested to carefully read this document and fully understand its contents. LRC shall not be in any way responsible or liable for failure, malfunction or accident arising from the use of any LRC's Products against warning, caution or note contained in this document.
- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.

单击下面可查看定价，库存，交付和生命周期等信息

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