

**BRDSL24WQ**  
Rev.A Mar.-2025

/ Absolute Maximum Ratings( $T_a=25$  )

Parameter	Symbol	BRDSL24WQ	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS Voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_{F AV}$	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	50	A
Typical Junction Capacitance <sup>1</sup>	$C_i$	290	pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{JA}$	70	/W
Operating Junction Temperature Range	$T_j$	-55~+125	
Storage Temperature Range	$T_{stg}$	-55~+150	

Note:

1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

2)P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

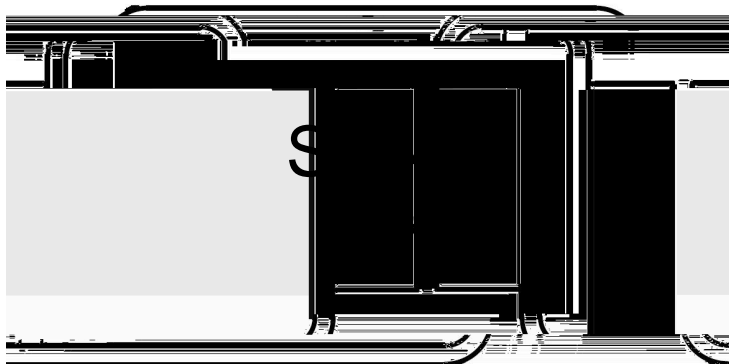
/ Electrical Characteristics( $T_a=25$  )

Parameter	Symbol	Test Conditions	BRDSL24WQ	Unit
Maximum Instantaneous Forward Voltage	$V_F$	$I_F=2.0A$	0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a=25$	0.5	mA
		$T_a=100$	10	

**BRDSL24WQ**



/ Marking Instructions



SL24

Q

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Note:

SL24      Product Type Code

Q:         Automobile halogen-free product Code

\*\*\*\*      Lot No. Code, code change with Lot No

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