

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 ¹⁾	C_i	290	pF
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	70	°C/W
Operating Junction Temperature Range	T_j	-55~+125	°C
Storage Temperature Range	T_{stg}	-55~+150	°C

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.

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	$T_a=25^{\circ}C$	0.5	mA
		$T_a=100^{\circ}C$	10	

Fig.1 Forward Current Derating Curve

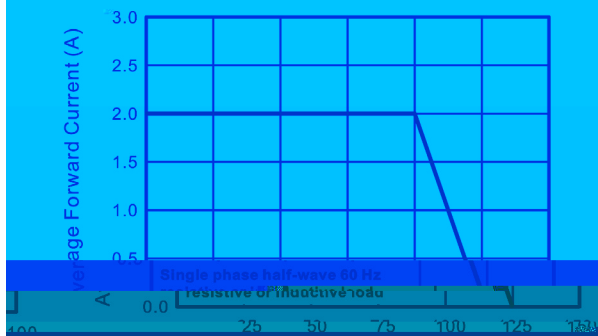
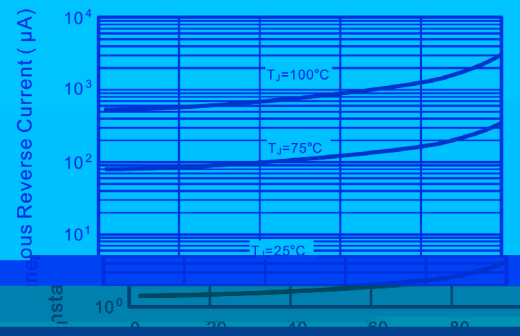


Fig.2 Typical Reverse Characteristics





SL24

Q

Note:

SL24 Product Type Code

Q: Automobile halogen-free product Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box