

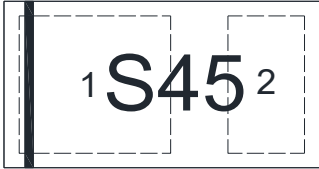
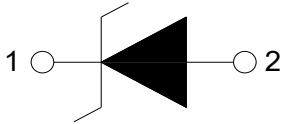
1. Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

2. Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any

3. Packing and Circuit

Packing	Patterns	Circuit
DFN1608-2L		

4. Specification

Absolute Maximum Rating & Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load.

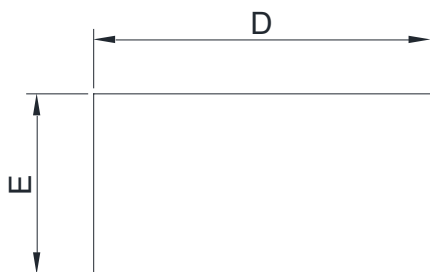
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Break Voltage	VR	IR=200uA	45			V
Forward Voltage	VF	IF=1A		0.53	0.56	V
		IF=1.5A		0.60	0.65	V
Reverse Leakage Current	IR	VR=45V		9	30	uA
Junction Capacitance	Cj	VR=0V, f=1MHz		150		pF
Reverse Recovery Time	trr	IF=0.5A, IR=1.0A, Irr=0.25A		25		ns

1. Pulse test: tp=380us, δ <2%

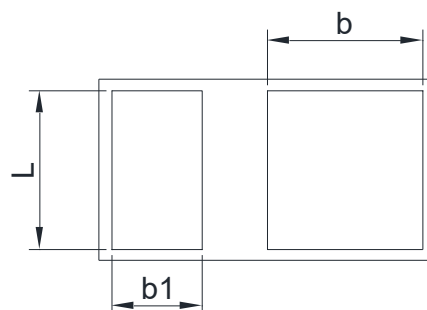
2. Pulse test: tp=5ms, δ <2%

Parameter	Symbol	Limit	Unit
Reverse Repetitive Maximum Voltage	VRM	45	V
Forward Average Rectified Current	IO	2	A
Typical Thermal Resistance Junction to Ambient	Rthja	80	°C/W
Non-Repetitive Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	IFSM	12	A
Repetitive Peak Forward Current (Pulse Wave=10ms, Duty Cycle = 25%)	IFRM	5	A
Junction Temperature	TJ	-55 to 125	°C
Storage Temperature	Tstg	-55 to 125	°C

5. Dimension (DFN1608-2L)



TOP VIEW



BOTTOM VIEW



SIDE VIEW

SYMBOL	MIN (mm)	NOM (mm)	MAX (mm)
A	0.45	0.50	0.55
D	1.55	1.60	1.65
E	0.75	0.80	0.85
L	0.66	0.71	0.76
b	0.71	0.76	0.81
b1	0.36	0.41	0.46
A1	0.000	0.012	0.025

DISCLAIMER

ELECSUPER PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with ElecSuper products. You are solely responsible for

- (1) selecting the appropriate ElecSuper products for your application;
- (2) designing, validating and testing your application;
- (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements.

These resources are subject to change without notice. ElecSuper grants you permission to use these resources only for development of an application that uses the ElecSuper products described in the resource. Other reproduction and display of these resources are prohibited. No license is granted to any other ElecSuper intellectual property right or to any third party intellectual property right. ElecSuper disclaims responsibility for, and you will fully indemnify ElecSuper and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources. ElecSuper's products are provided subject to ElecSuper's Terms of Sale or other applicable terms available either on www.elecsuper.com or provided in conjunction with such ElecSuper products. ElecSuper's provision of these resources does not expand or otherwise alter ElecSuper's applicable warranties or warranty disclaimers for ElecSuper products.