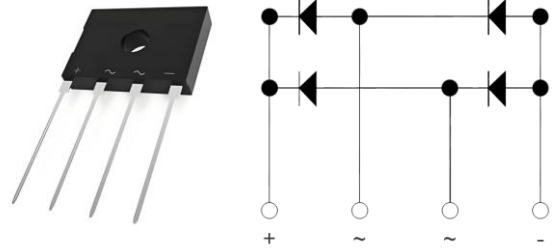


Features

- ◆ Glass Passivated Chip
- ◆ High Surge Current Capability
- ◆ Low Reverse Leakage Current
- ◆ Case to Terminal Isolation Voltage 2500V

Application

- ◆ LED Lighting
- ◆ Switch Mode Power Supply
- ◆ Household Electrical Appliances
- ◆ General Purpose Single-Phase Bridge Rectifier



Machanical Data

- ◆ Case: Plastic Package
- ◆ Marking / Polarity: Marked on Body
- ◆ Weight: About 1.2 Grams

Maximum Ratings and Thermal Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter		Rating	Unit
V_{RRM}	Recurrent Peak Reverse Voltage		1000	V
$I_{F(AV)}$	Average Forward Output Rectified Current, $T_A = 120^\circ\text{C}$		6.0	A
V_F	Maximum Forward Voltage Per Leg, $I_{FM} = 6.0\text{A}$		1.03	V
I_{FSM}	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		160	A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	5.0	μA
		$T_A = 125^\circ\text{C}$	500	
i^2t	Rating for Fusing ($t < 8.3\text{ms}$)		106	A^2S
V_{isol}	Rms Isolation Voltage from Case to Leads		2500	V
C_J	Typical Junction Capacitance		42	pF
$R_{\theta JC}$	Maximum Thermal Resistance Per Leg		4.2	$^\circ\text{C/W}$
T_J, T_{STG}	Operating Junction and Storage Temperature Range		-55 to 150	$^\circ\text{C}$

Notes:

- a. Junction to case with heatsink.
- b. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

■ Characteristic Curve

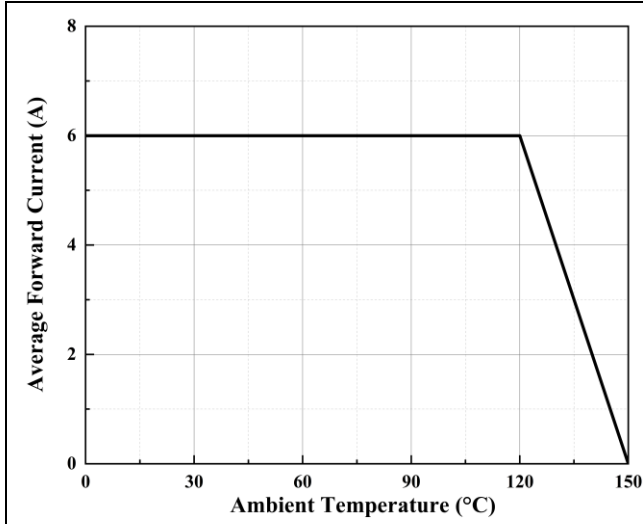


Figure 1. Forward Current Derating Curve

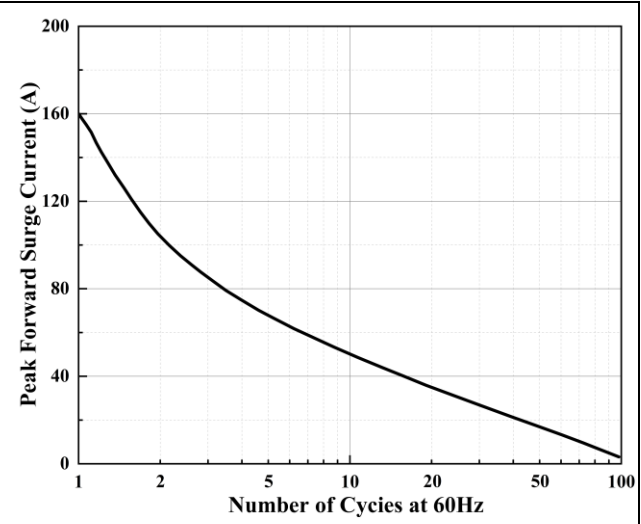


Figure 2. Maximum Non-Repetitive Surge Current

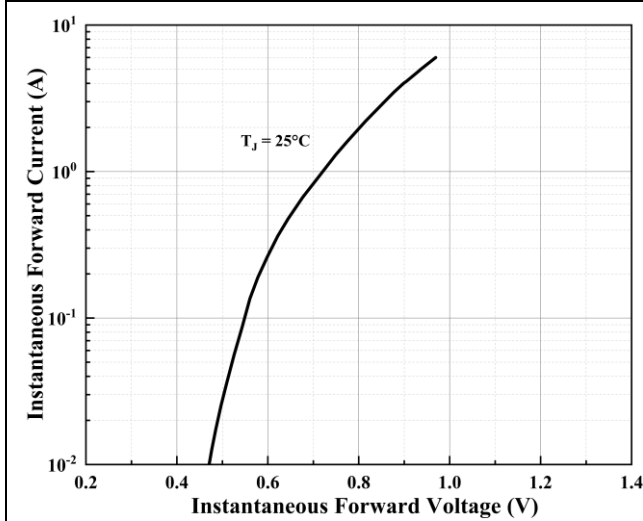


Figure 3. Typical Forward Characteristics Per Diode

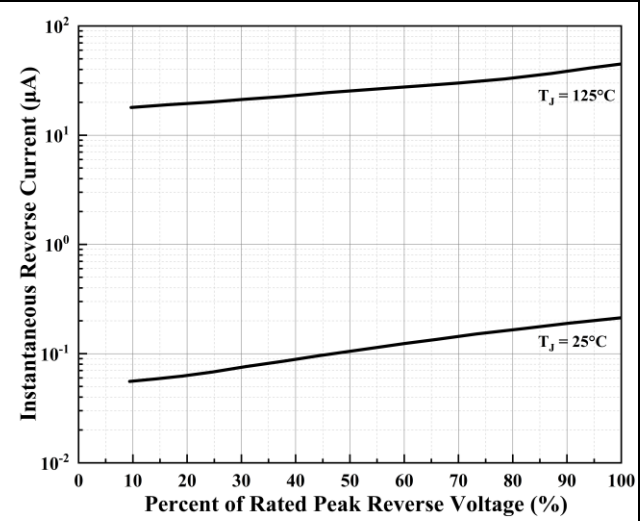
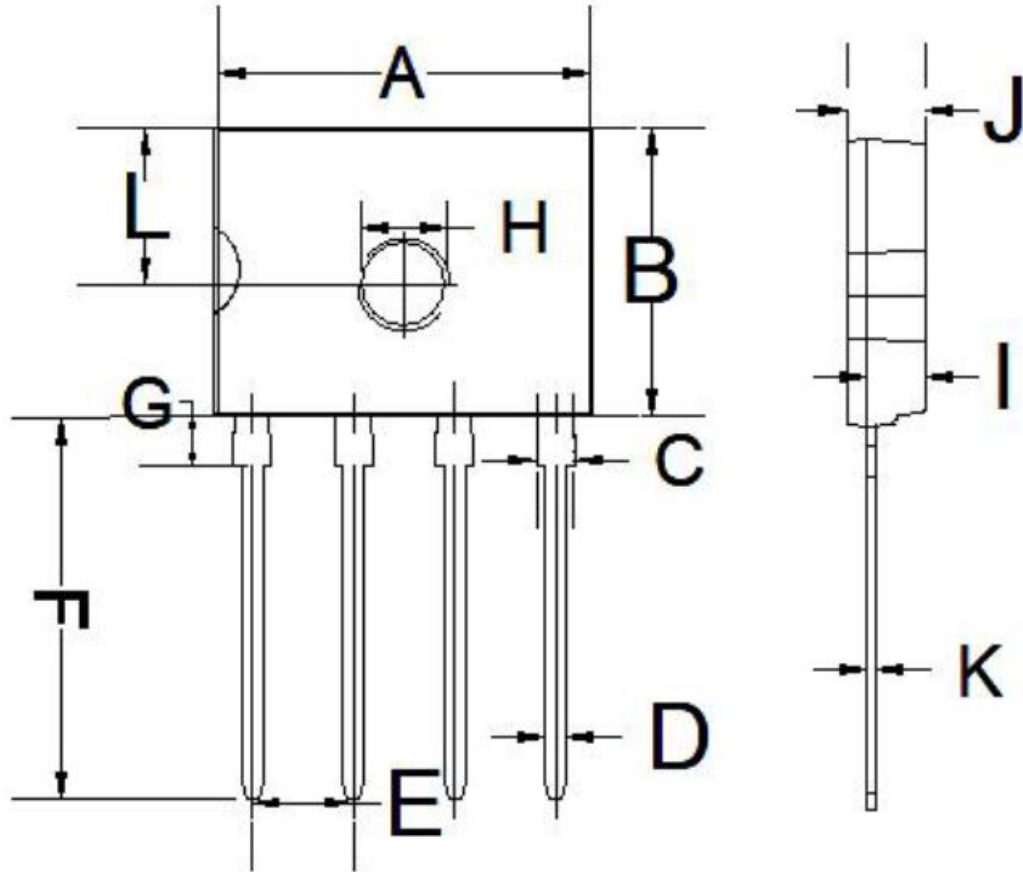


Figure 4. Typical Reverse Leakage Characteristics Per Diode

■ Package Information

D3K Series



Item	Min (mm)	Max (mm)
A	13.95	14.45
B	10.60	11.00
C	1.30	1.50
D	0.77	0.83
E	3.65	3.95
F	14.10	14.70
G	1.70	2.10
H	3.40	3.60
I	2.00	2.40
J	2.90	3.10
K	0.33	0.37
L	5.80	6.00