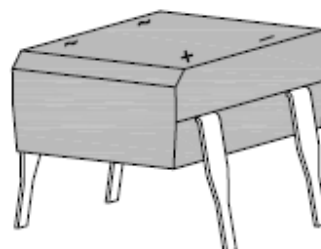


1.5A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- Low leakage
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
0.375" (9.5mm) lead length at 5lbs.(2.3kg) tension
- RoHS compliant



DF



Mechanical Data

Case:	DF, Molded plastic body over passivated junction
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-202, Method 208
Polarity:	As marked on case
Weight:	0.014 ounce, 0.4 gram

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter	DB 151G	DB 152G	DB 153G	DB 154G	DB 155G	DB 156G	DB 157G	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	1.5							A	$T_A=40^{\circ}\text{C}$
I_{FSM}	Peak Forward Surge Current	50							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
I²_t	Rating for Fusing ($t<8.3\text{ms}$)	10							A ² sec	

1.5A Glass Passivated Bridge Rectifier

DB151G - DB157G

Symbols	Parameter	DB 151G	DB 152G	DB 153G	DB 154G	DB 155G	DB 156G	DB 157G	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage Drop per leg	1.1							V	I _F =1.5A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	T _J =25°C
		500								T _J =125°C
C _J	Typical Junction Capacitance per leg	25							pF	V _R =4V, f=1MHz
R _{θJA}	Typical Thermal Resistance per leg	40							°C/W	Note 1
R _{θJL}		15								
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150							°C	

Note: 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 x 0.5" (13 x13mm) copper pads.

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

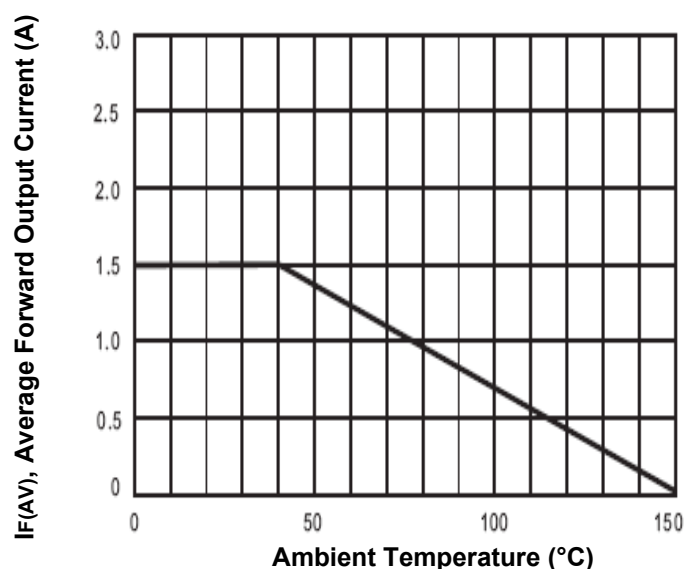
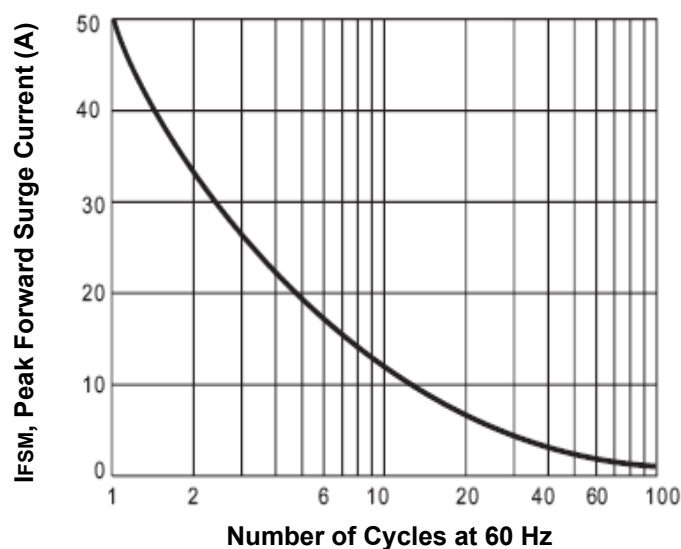


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



1.5A Glass Passivated Bridge Rectifier

DB151G - DB157G

Fig.3-Typical Forward Characteristics
per leg

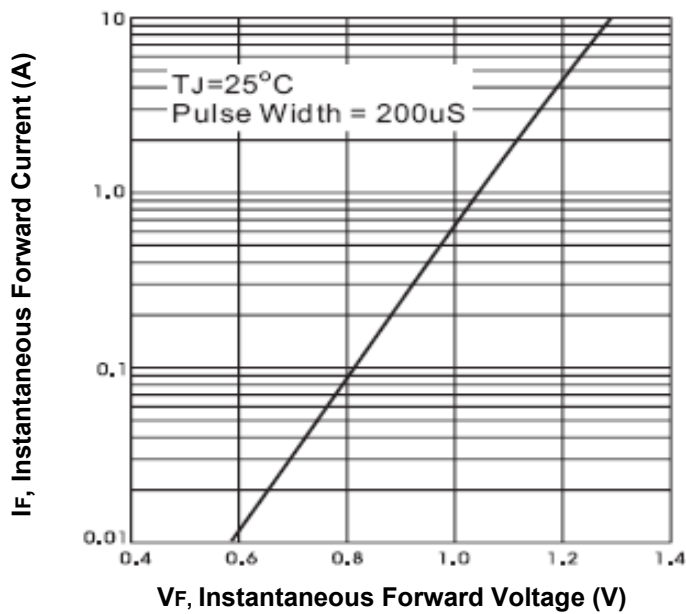
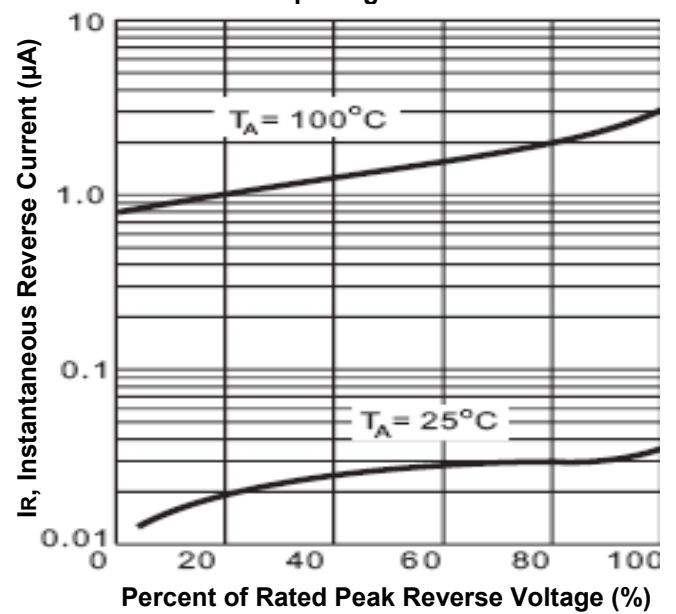


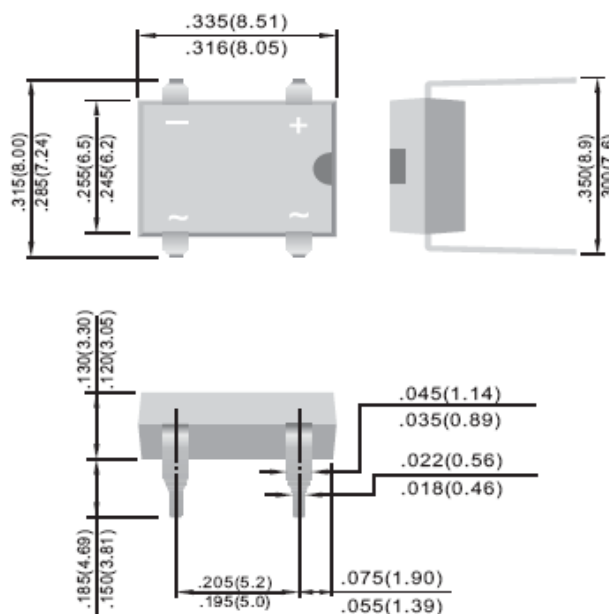
Fig.4-Typical Reverse Leakage Characteristics
per leg



1.5A Glass Passivated Bridge Rectifier

DB151G - DB157G

Dimensions in inch (mm)



DF

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