

DB151L THRU DB157L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- 4-PIN DIP Package
- Glass Passivated Diode Construction
- High Surge Forward Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance : RthJA: 68C/W; RthJL: 15C/W.

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
DB151L	DB151L	50V	35V	50V
DB152L	DB152L	100V	70V	100V
DB153L	DB153L	200V	140V	200V
DB154L	DB154L	400V	280V	400V
DB155L	DB155L	600V	420V	600V
DB156L	DB156L	800V	560V	800V
DB157L	DB157L	1000V	700V	1000V

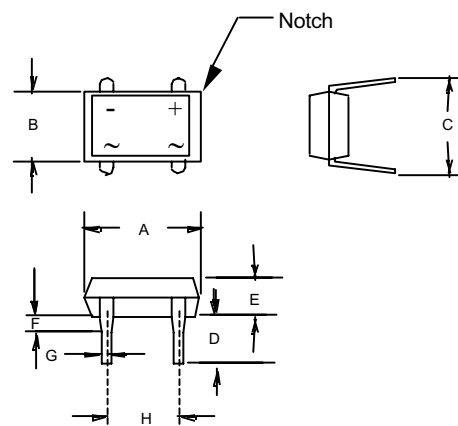
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5 A	$T_A = 40^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	45A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 1.5A;$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μ A	$T_J = 25^\circ\text{C}$
Current Squared Time	I^2t	8.4A ² S	1ms ≤ t < 8.3ms $T_J = 25^\circ\text{C}$, Rating of per diode

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

1.5 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts

DBL-1



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.316	.335	8.05	8.51	
B	.245	.255	6.20	6.50	
C	.300	.350	7.60	8.90	
D	.150	.185	3.81	4.69	
E	.093	.096	2.35	2.45	
F	.050	.080	1.27	2.03	
G	.018	.023	.46	.56	
H	.195	.205	5.00	5.20	

DB151L thru DB157L

Characteristics(Typical)

FIG1:Io-Ta Curve

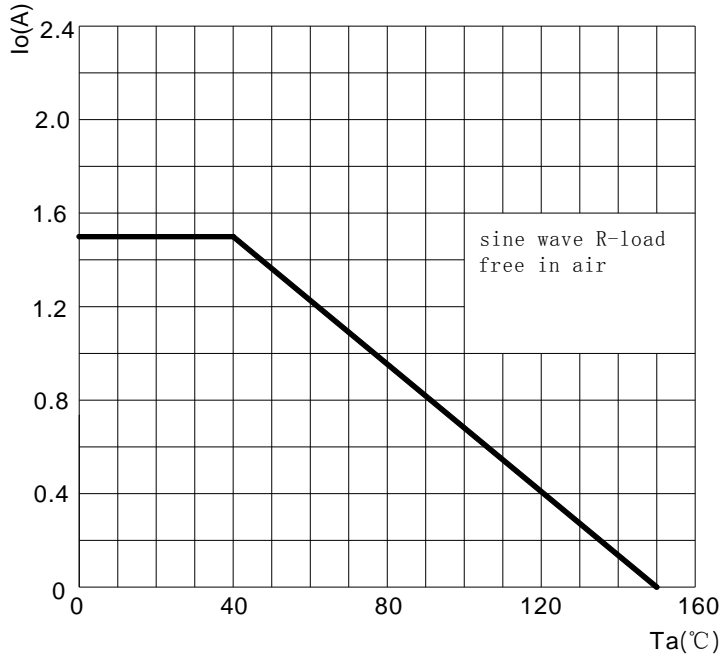


FIG2: Surge Forward Current Capacity

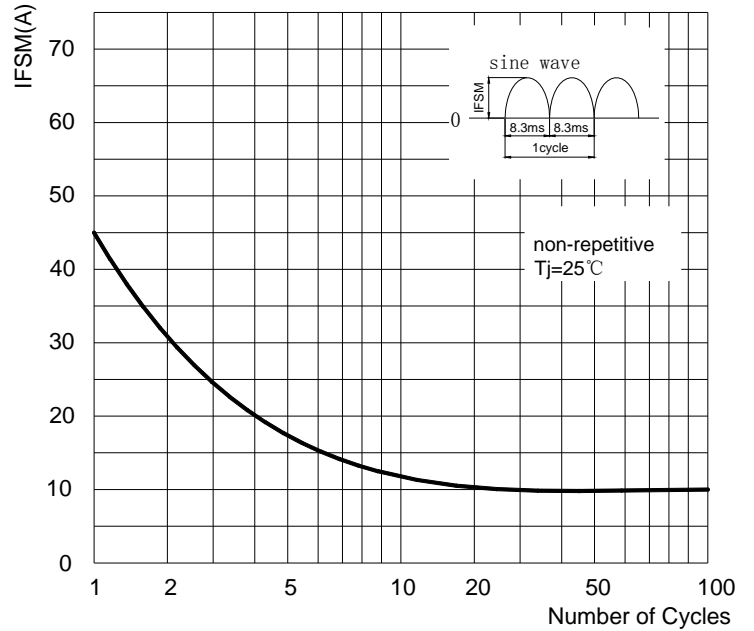


FIG3: Forward Voltage

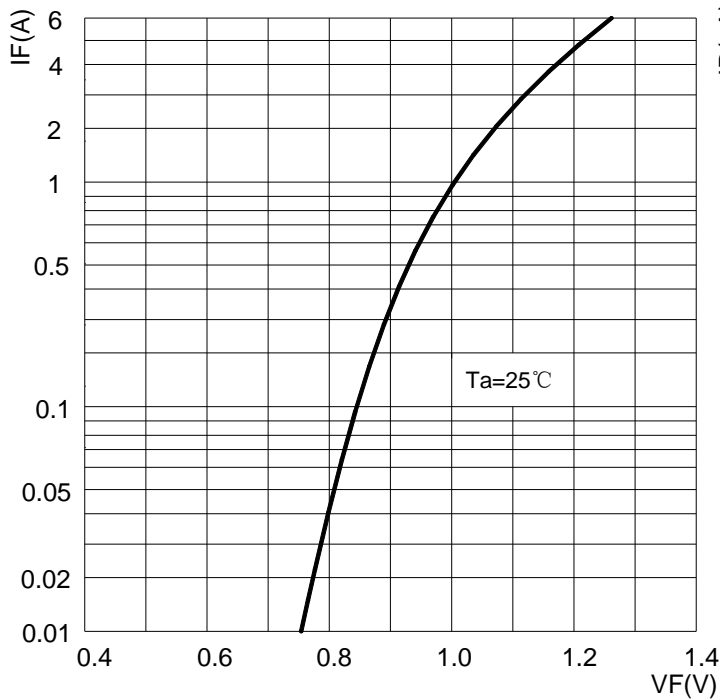
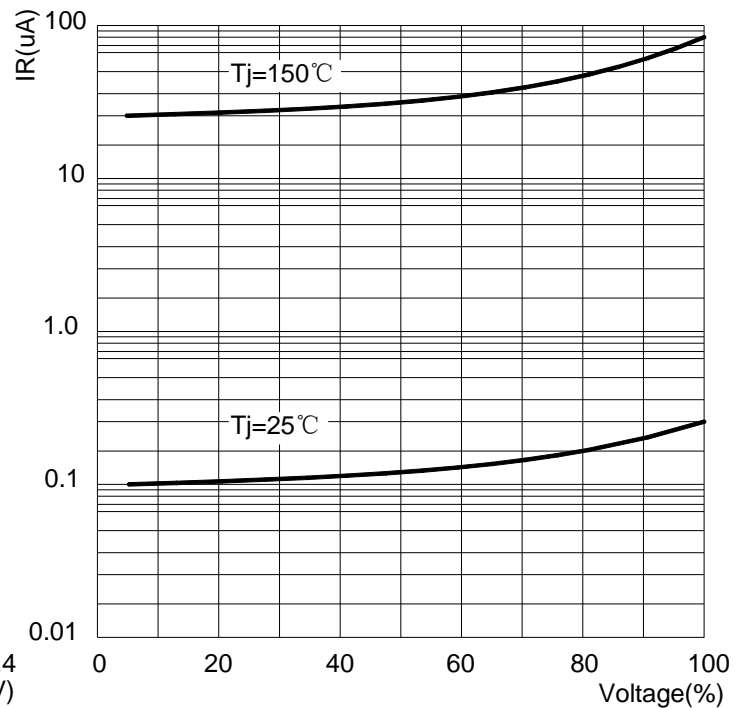


FIG4: Typical Reverse Characteristics





Ordering Information :

Device	Packing
Part Number-BP	Bulk: 2.5Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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