UDB151 THRU UDB157

SINGLE PHASE 1.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

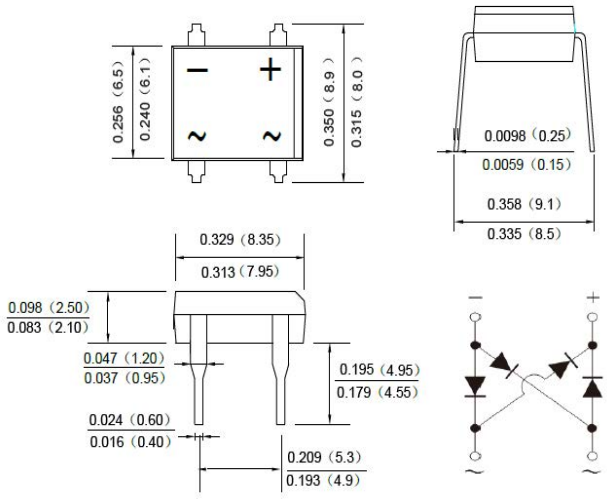
Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: DB-M, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version

DB-M



Dimensions in inches and （millimeters）

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	UDB151	UDB152	UDB153	UDB154	UDB155	UDB156	UDB157	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VDC	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@TC=100℃	IF(AV)	1.5							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	55							A
I^2t Rating for Fusing (t < 8.3ms)	I2T	12.554							A2
Forward Voltage per element @IF=1.5A	VFM	1.0			1.3	1.7			V
Peak Reverse Current @TA=25℃At Rated DC Blocking Voltage @TA=125℃	IR	5.0 200							uA
Maximum reverse recovery time （Note 3）	TRR	50				75			ns
Typical Junction Capacitance per leg (Note 2)	CJ	25							pF
Typical Thermal Resistance per leg	RθJA RθJL	40 15							℃/W
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							℃

Note:1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.
2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

UDB151 THRU UDB157

SINGLE PHASE 1.5AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Fig. 1 Output Current Derating Curve

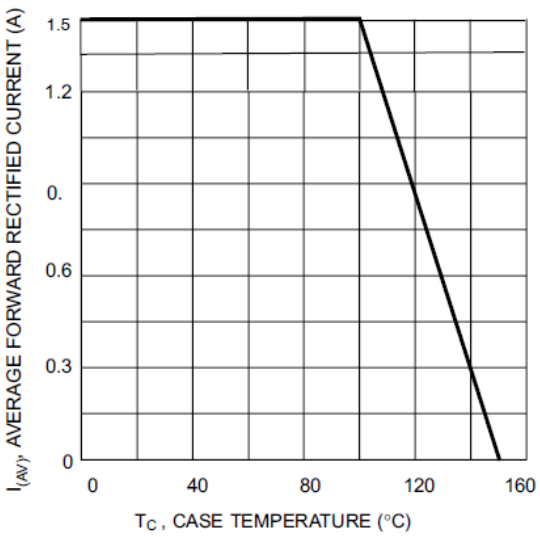


Fig. 2 Typical Forward Characteristics (per leg)

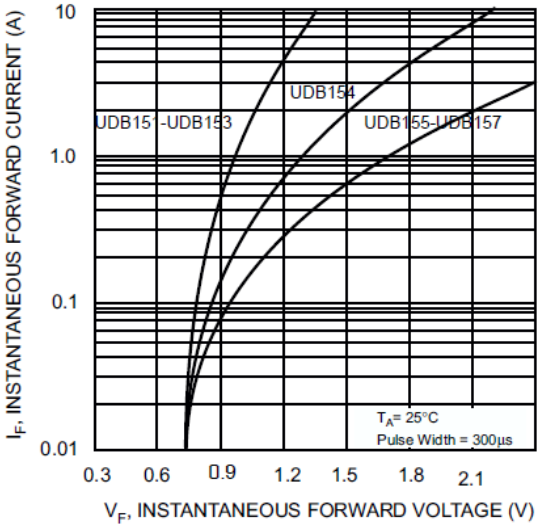


Fig. 3 Maximum Peak Forward Surge Current (per leg)

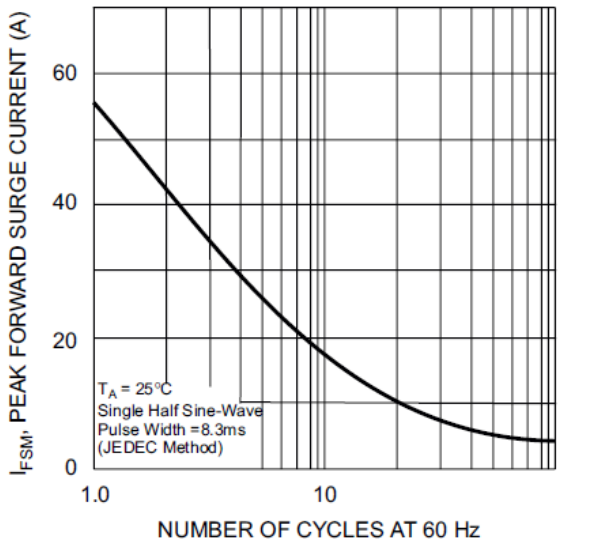


Fig. 4 Typical Reverse Characteristics (per element)